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ABSTRACT MAXIMUM 200 WORDS OVER THE PERIOD MARCH 13-20, 1989, A SERIES OF T-SCAL UNIVEYS WERE CONDUCTED TO ESTABLISH A CORROSION MONITOR: ANK \$2. CONTINUATION OF THE PROGRAM IN OCTOBER, 1989, HE TANK \$2 BASELINE AREAS, PLUS ESTABLISHING BASELINE I HIS REPORT DESCRIBES AND DOCUMENTS THE SCANNING DONE DO THE THREE STORAGE TANKS WERE SUBJECTED TO EIGHT VERT: APPING EXAMINATIONS USING THE P-SCAN EQUIPMENT. TWO HO ERFORMED FOR EACH TANK. THE AREAS SCANNED REVEALED ONE ALL THICKNESS, ALTHOUGH A SMALL LOCALIZED AREA OF TANK XPERIENCED A WALL LOSS OF 0.090 INCHES SINCE MARCH. RADIOGRAPHIC SURVEYS WERE PERFORMED ON THE ATTACHMENT -8. TWO VALVES ON TANK \$2 WERE FOUND TO HAVE CORROSION	ING BASELINE OF STORAGE INCLUDED RE-SCANNING OF DATA ON TANKS #1 AND #3. URING THE OCTOBER SURVEY. ICAL AUTOMATED THICKNESS DRIZONTAL SCANS WERE ALSO LY SLIGHT VARIATIONS OF #2 WAS FOUND TO HAVE I VALVES, V-1 THROUGH
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T-SCAN SURVEYS OF INTERIM STORAGE TANK NUMBERS 1, 2, AND 3; BASIN F, ROCKY MOUNTAIN ARSENAL

For SIP Engineering/Shell Chemicals

October 6-25, 1989

Karl Van Scyce Patrick Burke DNV Industrial Services, Inc. 16203 Park Row, Suite 160 Houston, Texas 77084 (713)-579-9003

Project Number: P15489

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DNV INDUSTRIAL SERVICES, INC.

REPORT OF T-SCAN EXAMINATION UTILIZING EXTREME VALUE ANALYSIS

Tested By:

Karl Van Scyoc Patrick Burke

Test Date:

25OCT89

Prepared By: Karl Van Scyoc

Date:

15NOV89

Approved By:

Date:

DEC.'19

CLIENT:

SIP Engineering/Shell Chemicals

Test Location: Rocky Mountain Arsenal, Denver, Color do

Test Item:

Basin F, Interim Storage Tank Numbers 1, 2, 3

Exam Surface: Original paint intact, girth welds ground flush at examination areas.

System:

PSP-3 #205

Probe:

Sigma, 4MHz Dual

Scanner:

AWS-5S #002

I-CODE:

EDGE contact, PEAK-EDGE Contact

Evaluation:

PEAK-EDGE Contact

RESULT SUMMARY

Storage Tank Numbers 1, 2 and 3 were subjected to eight vertical automated thickness mapping examinations using the P-SCAN equipment. Additionally, two 10' long horizontal scans were performed for each tank. These scans served to establish a baseline for Tanks 1 and 3, and re-assess the existing baseline areas of Tank #2 (Ref. DNV Report C04489). The areas scanned on Tanks 1, 2, and 3, reveal only slight variations of wall thickness, although a small localized area of Tank #2 was found to have experienced a wall loss of 0.090 inches since the March 1989 baseline. This thinning prompted scanning of two additional horizontal scans to evaluate the extent of the thickness reduction.

Application of Extreme Value Analysis, EVA (a statistical technique used to calculate the maximum pit depth for the entire tank wall) predicted slight wall loss in Tanks 1 and 3, and predicted the presence of the Tank #2 thin area.

Radiographic surveys were performed on the attachment valves, V-1 through V-8. Two exposures (horizontal and vertical) were obtained for each valve. Tank #2, V-7 and V-8 were the only valves reported to have corrosion. A machine screw was found in Tank #1, V-5.

A full accounting of the surveys may be found in the following sections.

EVA Procedure:

Version 1.1

MEVA Rev:

HP V1.2

DNV-ISI Job Number: P16489, Report Revision 1 (Summary of Results)

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1.0 INTRODUCTION

Three storage tanks 70' diameter and 40' in height were placed in service in 1987 for interim storage of hazardous waste at the Rocky Mountain Arsenal. The tank walls were constructed of five steel plate courses ranging in nominal thickness from 0.75" to 0.95", thereby providing ample corrosion allowance. Each tank was fitted with a plastic liner which extended over the floor and against the wall. It was discovered that the liner in Tank #2 had developed perforations which allowed storage-product contact with the steel wall.

At the time of liner perforation, the rate of corrosion was not determined. As an complement to corrosion rate studies (which showed corrosion rates from 0.028" to 0.260" per year), an insitu corrosion monitoring program was formulated.

Over the period of March 13 through March 20, 1989, DNV Industrial Services conducted a series of T-SCAN thickness mapping surveys to establish a corrosion monitoring baseline of Tank #2. Continuation of the program in October, 1989 included re-scanning of the Tank #2 baseline areas, plus establishing baseline data of Tank #1 and Tank #3.

This report describes and documents the scanning conducted during the October survey. Vessel referencing and scanning technique are addressed to ensure reproducibility in subsequent scanning sessions.

1.1 Previous Ultrasonic Baseline Data

Members of the DNV QAS group obtained pre-service baseline thickness data in May, 1988. Twelve sample areas were selected for each of the three tanks, with each sample area measuring 18 x 24 inches. Thickness measurements were taken within each sample area using a 8" grid, providing a total of 63 measurements for each sample area. Paint was removed at each measurement location. Full details of the DNV QAS baseline measurement project may be found in the QAS report number 56-1400-63-01. Excerpts of the QAS report that are relevant to this examination report are noted in the Discussion-section.

2.0 EQUIPMENT

The following equipment was used to conduct the T-SCAN surveys of Basin F Storage Tanks.

P-SCAN Processor

#205

Automatic Scanner AWS-5S

#002

DSC Block, Steel

#797021

Step Wedge, Steel

#88-5014

Couplant

Water/Water-antifreeze

Cables

RG-58, 25 meters

Search unit

Sigma, Dual Element,

4.0 MHz, SDC4-F6.5, s/n 7001-88006

All ultrasonic equipment has current calibration in accordance with DNV procedures.

8.0 PROJECT SCOPE

The goals of the October, 1989 scanning session were to execute all of the following tasks for each of the three tanks:

- a. Perform automated thickness mapping of a 12" wide vertical strip extending vertically from the wind girder to the primary floor. A vertical scan was to be performed approximately every 45 degrees, for a total of eight scan sequences.
- b. Perform automated thickness mapping of two 12" wide horizontal strips, each extending for 120" in length. The horizontal scans were confined to Course 5 and placed (1) between the transfer line flanges and (2) over the manway without the code plate.
- c. Apply a statistical extrapolation (known as Extreme Value Analysis, EVA) to the automated T-SCAN vertical surveys to predict the <u>maximum</u> pit depth.
- d. Obtain vertical and horizontal radiographic exposures of eight 1.5" diameter valves. Hence, for each tank, 16 exposures were required.

3.1 Additional Documentation of Tank #2

During evaluation of survey data, it was noted that a localized area of Tank #2 experienced a substantial change in wall profile. Consequently, DNV was requested to carry out two additional horizontal scans to assess the extent of wall loss.

4.0 PROJECT ORGANIZATION AND VESSEL REFERENCING

An arbitrary referencing scheme was established at the inspection site, which is illustrated in Figure 4.1 through Figure 4.6 and discussed below.

Course Numbering T

The wall courses are arbitrarily numbered as 1 through 5. The top course with the wind girder is Course 1, and the bottom course at the primary floor is Course 5.

Scan Sequence Nos.

Scan sequences are designated by numbers extending from Scan 1 through Scan 8, with Scan 1 on the North side. Scan Sequence numbering continued counter-clockwise (looking from the top). Scan sequences were positioned whereby automated exams would intersect the pre-service grid measurement areas where practicable.

Nozzle Referencing

Nozzles and manway designations are noted in Figures 4.1 through 4.3. Valves V-1 through V-8 were subjected to radiographic examination.

4.1 Scan Sequences and T-SCAN File Convention

Each image, or part, of a scanning sequence is identified with a filename (ITEM) which may be used to correlate the image with a uniquely identifiable portion of the scan area. The filename may be found at the lower right corner of each T-SCAN printout. Filenames for the surveys were defined as discussed below.

4.1.1 Vertical Scans

While a continuous vertical scan was accomplished at each of the eight scan locations, each vertical scan was divided into 5 scan sequences of approximate length 96 inches. (Figure 4.6). Additionally, each 96" long sequence is composed of 4 parts or images of dimension 12" x 24". The segmenting of image data is necessary for documentation and accurate referencing. The image files saved on 3.5" floppy diskettes follow the convention:

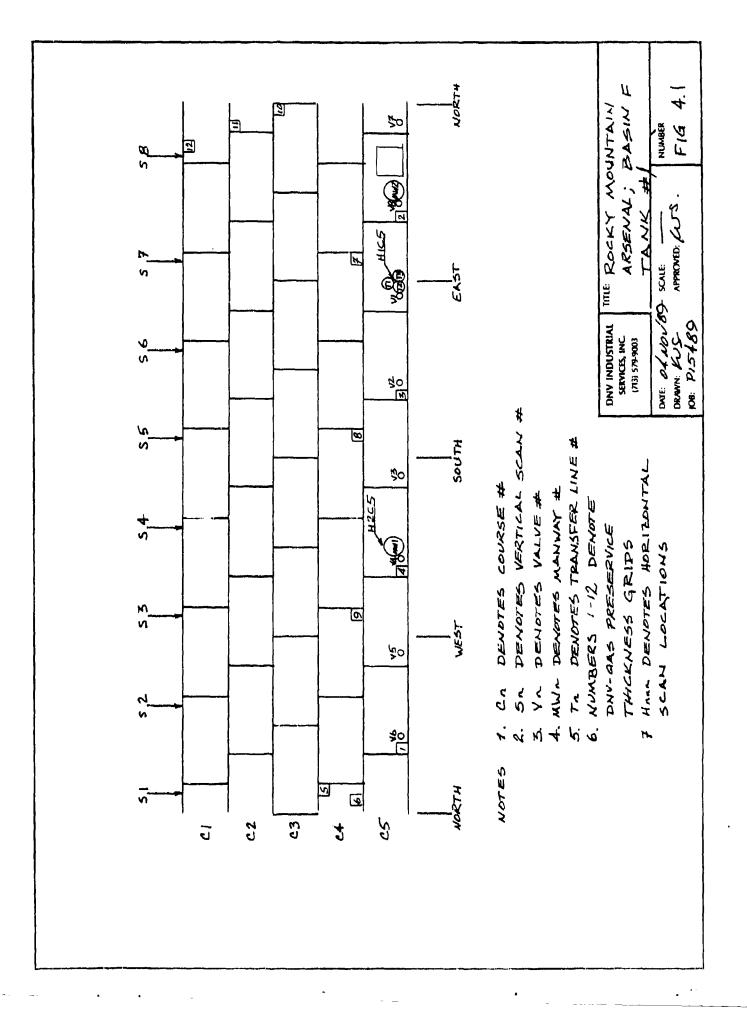
TKn-SsCc.p where TKn Identifies the Tank Number, 'n'
Ss Identifies the vertical Scan number
Cc Identifies the Course number, 'c'
p Denotes the part number

4.1.2 Horizontal Scans

All horizontal scans are 120" in length and reside in course 5. The horizontal scan file convention is similar to that of the vertical scans:

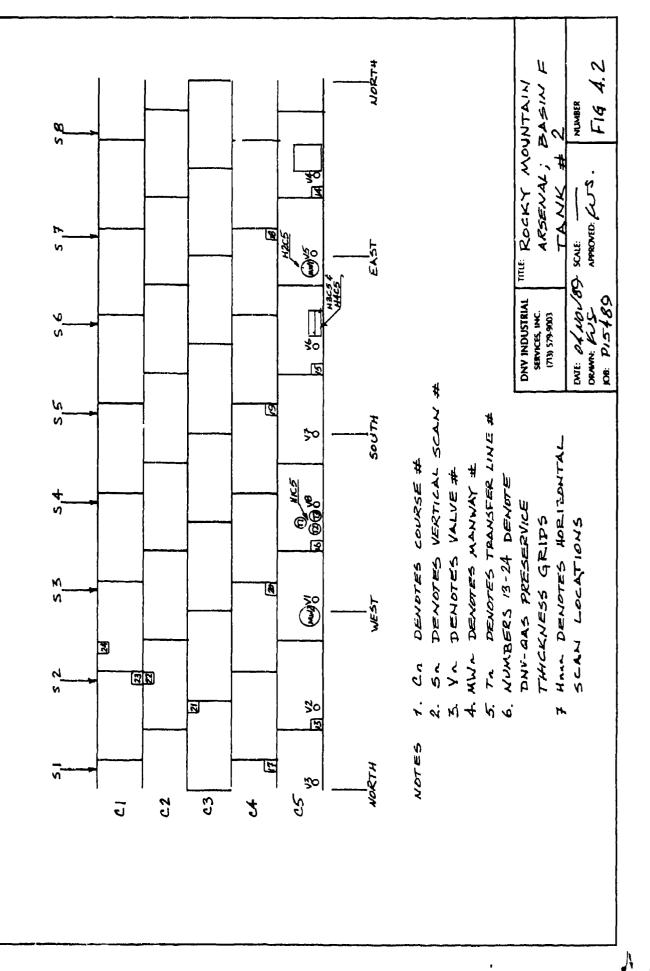
TKn-HhCc.p where TKn Identifies the Tank Number, 'n'
Hh Identifies the Horizontal scan number, 'h'
Cc Identifies the Course number, 'c'
p Denotes the part number.

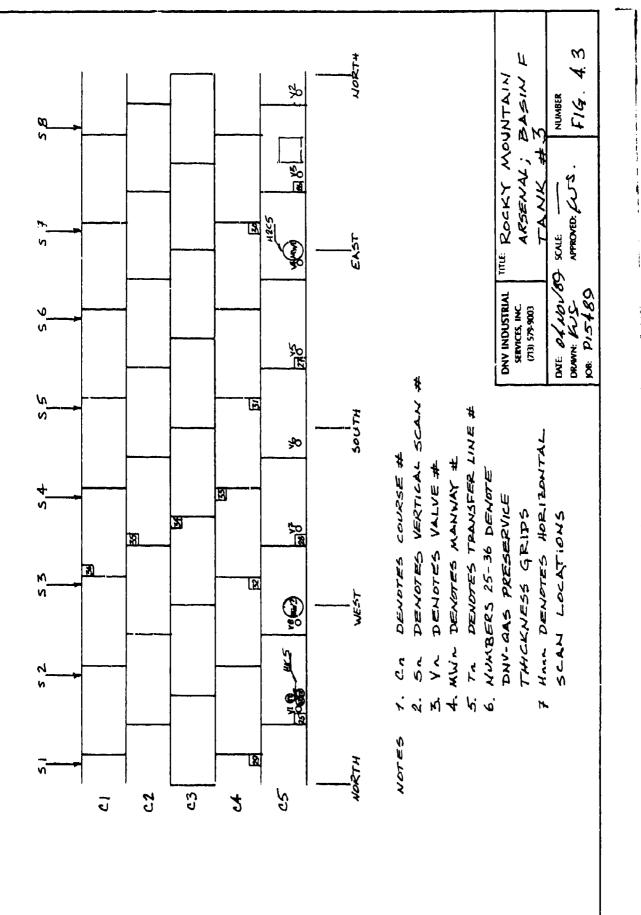
Horizontal scan locations are documented in Figures 4.4 and 4.5.

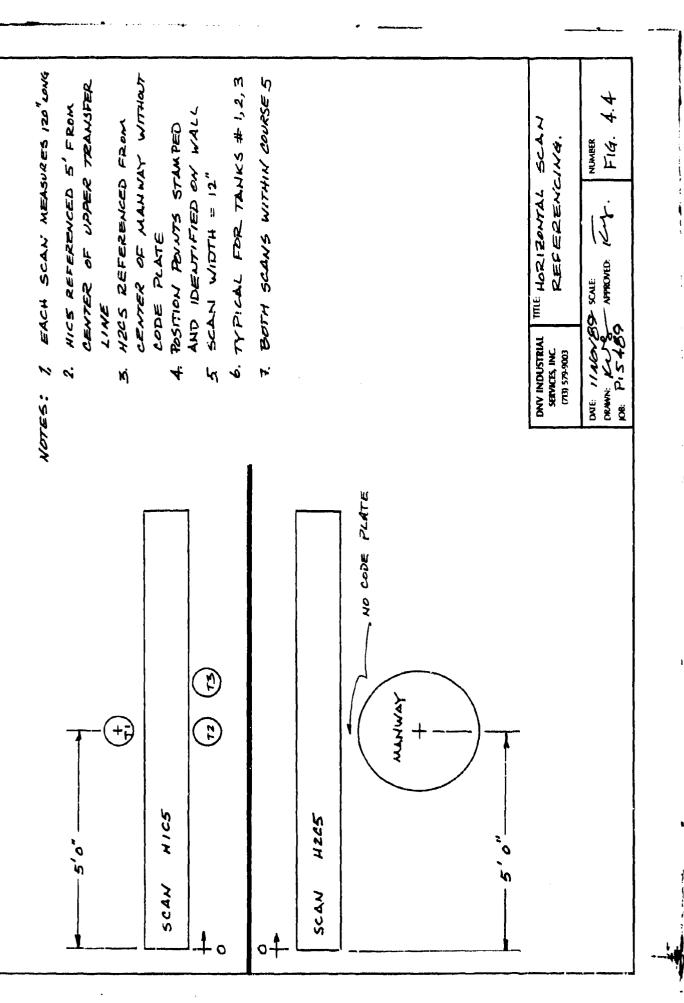


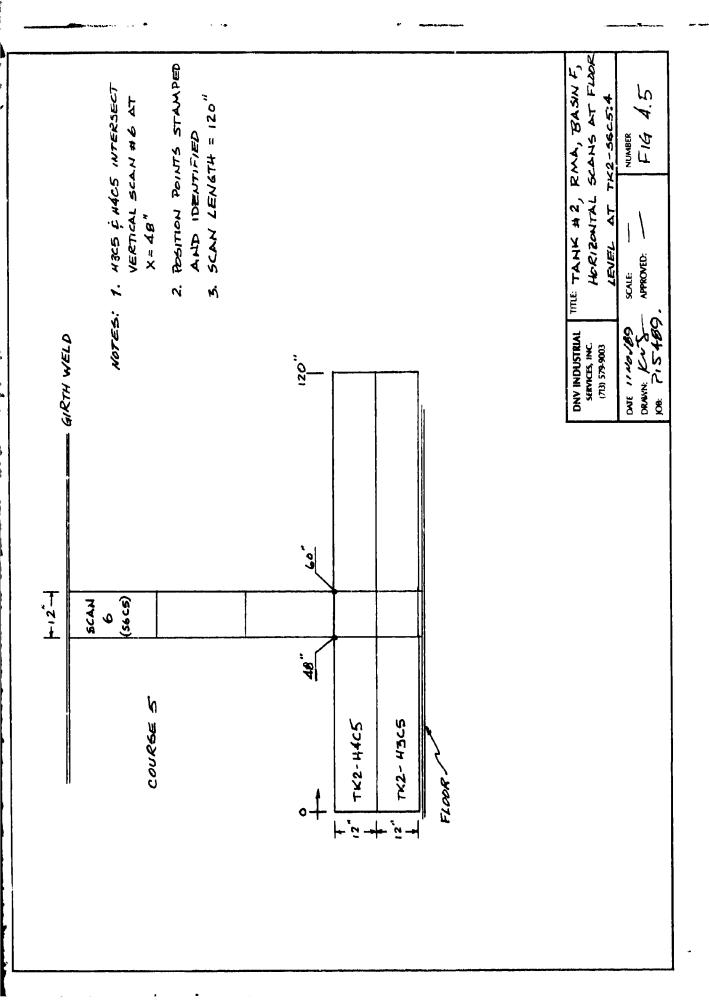
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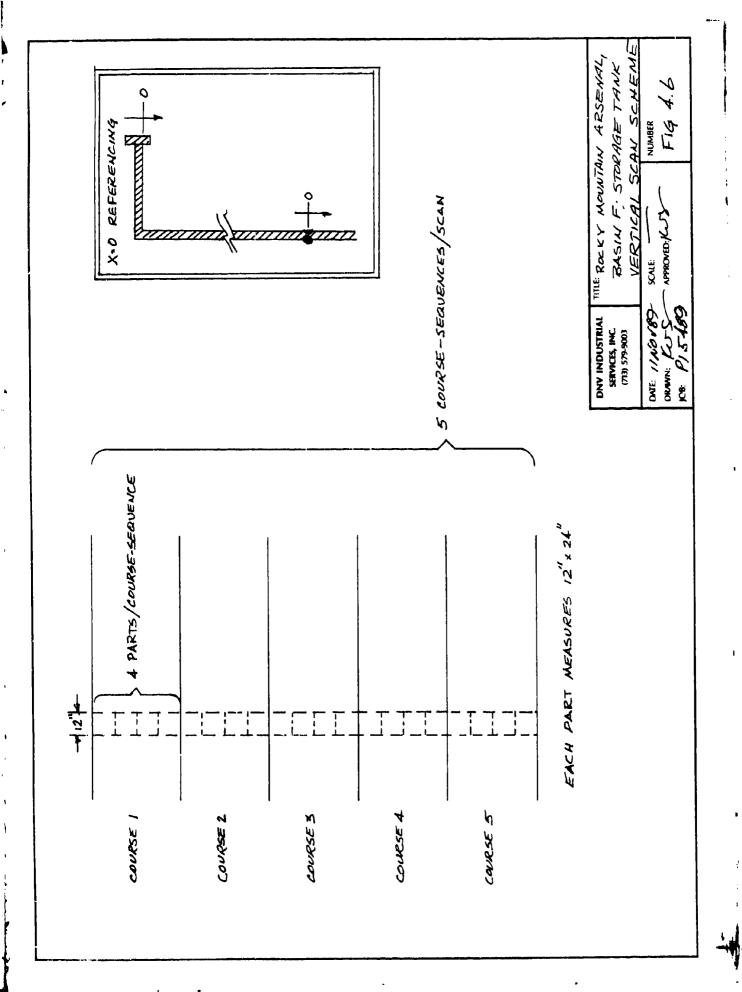
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4.2 Zero Referencing

For each vertical course sequence 2-5, the zero reference point is the center of the upper course girth weld as illustrated in Figure 4.6. The bottom of the wind girder was utilized as the zero reference for Course 1.

Zero referencing for horizontal sequences is illustrated in Figures 4.4 and 4.5.

4.3 Scan Location Marks

The extremes of the 12" scan width are stamped and identified with paint. This identification was performed at the scan-start and scan-end. In terms of T-SCAN positioning, the stamp mark pairs denote y-travel from -6.0 to \pm 6.0 inches.

5.0 Scanner Positioning

The automatic scenner AWS-5S attaches to the vessel wall by means of magnetic wheels, and scanner travel is directed by microswitches aligned with a magnetic strip. Consequently, placement of the strip is critical to reproducibility. For this application, a chalk line was used to produce a visible reference line for magnetic guide strip placement. In this fashion, the magnetic strip is spaced equidistantly from the inspection area.

5.1 Scanner Re-Positioning

In the course of subsequent surveys, it is recommended that the chalk line be equally spaced from the position stamp marks to ensure optimum scan reproducibility.

8.0 EXAMINATION INFLUENCES

Paint

The presence of paint will affect the measured thickness of steel by approximately 3 to 4 times the paint thickness. For example, if paint is 0.005" thick, the measured wall thickness is increased by approximately 0.015 to 0.020". In the course of these surveys, variations in paint thickness and smoothness were observed.

Surface Inconsistencies

Examination surface irregularities (eg. grit imbedded in the paint, rolling gouges) were observed in the course of scanning. These influences, while unavoidable, may promote increased thickness measurements in localized areas.

Wind

Fairly strong winds were encountered during scanning. While wind does not affect thickness measurement, it is possible that a small displacement of the 'plumt' chalk line resulted from winds, which would affect scanner positioning with respect to the desired inspection area. The strip displacement did not exceed 1 inch.

Temperature

We observed air temperatures ranging from 25F to 80F. The temperature variations encountered during a scanning day necessitated frequent calibration checks-often exceeding the minimum requirement of procedure. In no case did calibration vary in excess of 0.005 inches from known values.

Girth Welds

Prior to the October scanning, the girth welds were ground flush with the shell material. This enabled, in most cases, thickness measurement over the weld area. It is important to note that the Tank #2 scanning of March, 1989 was performed with reinforcement in the as-welded condition, and thickness measurement adjacent to and over the weld was not possible.

Stairwell

The stairwell obstructed data collection for a portion of some vertical scan sequences. The unscanned length is noted on the data sheet.

Wind Girder

[_

The wind girder obstructed scanning for approximately the first 19 inches of the vertical course 1 scanning sequence.

7.0 DATA REPORTING

7.1 T-SCAN Data (Appendix 1, 2, and 3)

Data from the automated scans is presented in table and hardcopy image form. The tables indicate the maximum, average, and minimum thickness for each scan part. The biased minimum thickness (in millimeter units) used in EVA calculations is noted in the 'comments' column for part :02 of each vertical scan. Additionally, for Tank #2, the measured thickness difference (denoted as 'delta' T) between the March 1989 baseline scanning and 'he October 1989 examinations is noted adjacent to the Minimum Thickness value. It is suggested that all subsequent scanning sessions be compared to the original T-SCAN baseline data.

Hardcopy T-SCAN images are printed in Course-Sequences whereby thickness values less than the nominal thickness are shown in the TOP view.

7.2 EVA Figures and Tables (Appendix 4)

EVA plots and graphs are included for documentation. Discussion of the significance of EVA calculations is included in Section 10.0

7.3 Radiographic Reproductions (Appendix 5)

Photographic reproductions of the original radiographs are presented in Appendix 5 with a discussion of measurement technique.

8.0 <u>UNDERSTANDING T-SCAN HARDCOPY</u>

The end result of a T-SCAN survey is a permanent record of thickness measurements presented in the form of a T-SCAN image. T-SCAN images (parts) of the scan area may be hardcopied singly or in continuous sequences. T-SCAN images consist of two views of the inspection volume, scaling information, display lines, and color referencing. Figure 8.1 is an example of a T-SCAN printout, and the following image evaluation discussion is based on the figure.

8.1 T-SCAN Image Views

The T-SCAN image of Figure 8.1 is configured to represent two projection planes of the inspection volume. These projection planes are labelled as 'TOP' and 'SIDE'. Each projection plane, or 'view' is bordered by a rectangular frame. By simultaneous use of two projection planes (views), one is able to visualize a three dimensional relief of the inspection volume.

TOP View Frame

The TOP view is as if an observer was viewing the testpiece from above the examination surface. The image length (distance in the x-direction) of the figure is 125 mm. The image width (distance in the y-direction) is 120 mm. Therefore, this image represents a scan area of 125 x 120 mm. Both image length and width may be selected by the operator during a test to minimize inspection time and maximize resolution. The TOP view frame size will not typically vary in dimension for different length/width combinations, and is composed of 15000 thickness data points.

SIDE View Frame

The SIDE view of the figure is a projection view as if an observer was viewing the inspection volume from the side. A projected side view does not represent any single 'slice' of the testpiece, but rather a composite of all side views of the inspection volume projected into one plane. Normally, the top of the SIDE view frame does not represent the outside surface of the testpiece. Hence, SIDE view scaling may be selected to provide increased screen resolution in the thickness dimension. In the figure, the SIDE view frame is a window or expansion of measured thickness where the Upper and Lower display limit is 1.5 and 15.0 mm respectively, as noted to the left of the SIDE view frame.

8.2 T-SCAN Display Level and Color Coding

Display Level: Extending horizontally across the SIDE view is a dotted line denoted as the Display Level. The display level may be varied by the operator to investigate thinning trends and locate areas of minimum thicknesses. In the Figure, the display level is set at 14.8 mm. Any portion of the inspection volume which is measured to be less than 14.8 mm is displayed graphically in the TOP view above.

Color Coding: Since T-SCAN images are 'topographic' maps of the inspection volume, colors are used to denote thickness contours or steps. Up to eight colors may be used to visualize the thickness steps. In the Figure, the thickness (color) steps begin at 13.5 mm (BASIS) and continue at thickness intervals to 8.3 mm. Therefore, with a single hardcopy, one may see the extent of corrosion (by use of the display level) and identify the worst-case thinning (by use of the color steps). Thickness 'steps' may be selected by the operator.

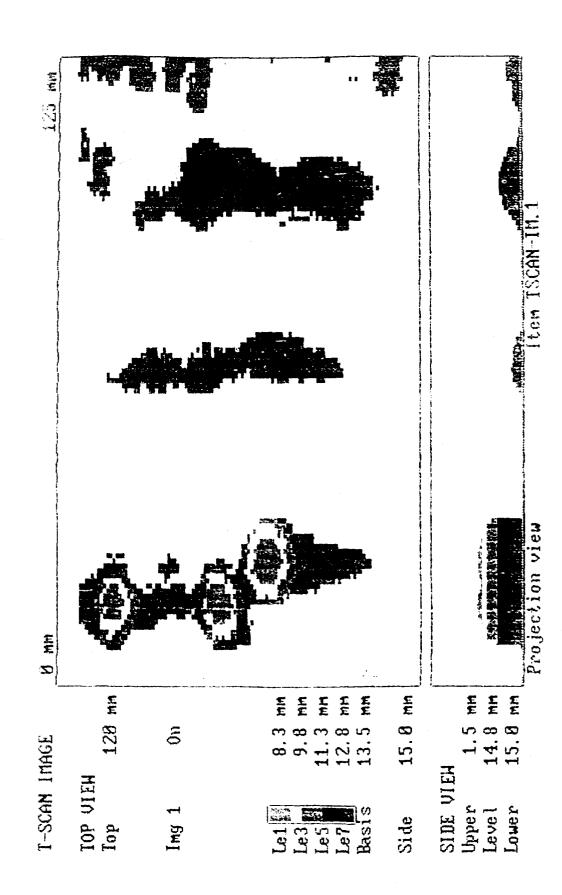


FIGURE 8.1: TYPICAL T-SCAN IMAGE

8.3 Data Dropout

Though the T-SCAN image is an invaluable tool for corrosion and thickness mapping, it must be understood that occasional indications may be superfluous. These inconsistent data may be caused by surface roughness or probe liftoff. Inconsistent data are sometimes called data dropout. T-SCAN procedures describe criteria for dropout acceptance levels which evolved from numerous tests at DNV. Inconsistent data normally may be distinguished by unusual distribution, extreme 'depth', and number of data points involved.

8.4 Additional T-SCAN Hardcopy Options

Though the Figure is a typical hardcopy configuration, the following display features are available when detailed image evaluation is desired:

- -- Inch/mm conversion
- -- Per-cent wall loss
- -- Projected END View
- -- Sectioned SIDE or END View
- -- Image Coding (Normally for complex surveys)
- -- Position Cross Hairs

9.0 APPLICATION OF EVA TO BASIN F STORAGE TANK SURVEYS

9.1 EVA Overview

Extreme Value Analysis (EVA) is a statistical sampling technique frequently used on storage tank bottoms to predict the minimum remaining thickness based on data collected with the P-SCAN instrument. In conventional examinations, the EVA surveys are performed as follows:

- Determine the optimum number of survey locations to be surface prepared.

 DNV specifies this number based on tank diameter and statistical requirements.
- -- Surface prepare the required number of survey locations by needle gun/wire brushing or light sandblasting.
- -- Perform T-SCAN thickness mapping of each location
- Analyze T-SCAN data files to determine minimum thickness for each survey location.
- Input the minimum thickness values into the Extreme Value Analysis program and produce curves for three methods of analysis.

9.2 Modification of EVA to Basin F Tank Surveys

EVA procedures and analysis software currently approach predictions of wall loss by means of extreme minimum thicknesses for each sample area. The presumption made is that factors promoting corrosive wall loss result in a consistent pitting distribution. In the case of the Basin F Storage tanks, the nominal wall thickness is not a constant for all courses; the lower courses are thicker. Consequently, in order to apply the EVA concepts, the following considerations were given for Part :02 of each vertical course-sequence:

- -- Minimum and average thickness for Courses 1, 2, and 3 were converted to millimeters.
- The arithmetic mean of <u>all</u> tabulated average thicknesses (for courses 1, 2, and 3) was calculated. For these surveys, the calculated mean was found to be:

TANK #1: 0.778 " (19.8 mm)
TANK #2: 0.778 " (19.8 mm)
TANK #3: 0.785 " (19.9 mm)

- For data of courses 4 and 5, it was necessary to bins the thickness to represent the thickness of Courses 1, 2, and 3. Therefore, for Course 4 and 5 part :02 data, the difference between the tabulated average thickness and the tabulated minimum thickness was subtracted from the arithmetic mean calculated above.
- -- EVA calculations are performed on the biased data, and the minimum predicted thickness is presented by the EVA program. This minimum thickness is then subtracted from the mean thickness to provide the maximum predicted wall loss.

9.3 Understanding EVA Plots (Appendix 1)

A full understanding of EVA plots may be accomplished only with complete knowledge of Extreme Value Statistics. For those unfamiliar with Extremal Statistics, general attributes of the EVA plots are noted below:

- Plot Title:

Appears at the top of the plot and is generally used to identify the tank

number and client.

-- EVA Frame:

Appears at the upper right of the plot with a number of analysis

parameters:

METH Identifies the algorithm method used to produce the plot. Currently, three methods are available for use.

DATE: Date of EVA Survey

RTN: Numerical value of the Return Period, a parameter used to derive the predicted minimum thickness for the METHOD. For all tanks, the return period was calculated to be 7697.

DEVY: For least squares linear regression, this denotes the Standard Deviation in the thickness dimension.

CORR: Denotes the correlation coefficient of the total sample variate for the METHOD in current use. A 'good' correlation is considered to be between -0.95 and -1.0 and data points will closely approximate the regression line.

Plot Scaling: Four scales are incorporated in the EVA plots

1 Remaining Thickness: Directly related to the minimas derived from the original T-SCAN tabulated data.

2/3 Standard Extremal Variate and Probability

Two mathematically related scales used in statistical evaluation after data reduction and transformation.

4 Return Period (Not shown) A horizontal scale mathematically related to Standard Extremal Variate and Probability scales and is used in defining the minimum predicted thickness for the METHOD in current use.

Data Pointa:

All unique minima values are assigned a corresponding Standard Extremal Variate and are plotted as points or squares, depending on the METHOD in current use. A best fit regression line is calculated and extrapolated to intersect with the appropriate return period. The corresponding minimum thickness for the METHOD is printed adjacent to the line.

10.0 DISCUSSION

10.1 Comparison of T-SCAN Data with DNV-QAS Preservice Baseline

A comparison of the minimum measured thickness of the automated surveys and the preservice grid measurements was made and the following table summarizes the results. It must be emphasized that the pre-service grid measurements were obtained after removing localized areas of paint. Hence, the grid measurements are without paint influence. Conversely, T-SCAN measurements were influenced by paint.

			DNV-QAS Data	T-SCAN Data
TANK NO.	QAS-Loc.	T-SCAN Image	Min T. Avg T.	Min T. Avg. T
1	09	TK1-S3C4.4	0.850 0.862	0.850 0.885
1	05	TK1-S1C4.1	0.822 0.837	0.820 0.855
1	08	TK1-S5C4.4	0.838 0.838	0.815 0.855
1	07	TK1-8704.4	0.845 0.850	0.850 0.870
2	17	TK2-S1C4.4	0.827 0.836	0.825 0.850
2	18	TK2-S7C4.4	0.835 0.839	0.820 0.845
2	19	TK2-S5C4.4	0.849 0.858	0.860 0.880
2	20	TK2-S3C4.4	0.825 0.838	0.835 0.860
2	22	TK2-S2C1.4	0.748 0.752	0.730 0.770
2	23	TK2-S2C2.1	0.742 0.748	0.7 30 0.770
8	29	TK3-S1C4.4	0.833 0.840	0.880 0.860
8	30	TK3-S7C4.4	0.848 0.854	0.845 0.860
3	31	TK3-S5C4.4	0.822 0.826	0.840 0.855
8	კ 2	TK3-S3C4.4	0.833 0.836	0.840 0.855
8	33	TK3-S4C4.1	0.826 0.833	0.815 0.850

10.2 Isolated Thin Areas

During evaluation of the data, several small isolated areas of thinning were noted. While it is possible that the thinning was the result of corrosion, it is likely that some of the 'pit' measurements were actually surface gouges or 'pock-marks' that existed at fabrication. A casual visual examination of the outside surface noted scattered areas of gouges (presumably from rolling) and small depressions. It is assumed that similar anomalies exist internally. External grinding was noted where alignment lugs were once welded during construction. Since the inside surface of the wall was smoothed by grinding and sandblasting, it is probable that shallow depressions remained after surface preparation. Indeed, adjacent to some girth welds, reduced thickness (by 0.010 to 0.060") was measured.

10.8 Tank #2 Wall Profile Changes

Following data evaluation and application of EVA, it was found that a general wall loss of approximately 0.015" has occurred since March 1989. However, a deviation of the general wall loss observation was identified in Scan 6, Course 5, Part 4 (File TK2-S6C5.4).

In March 1989, the minimum thickness for Image TK2-S6C5.4 was found to be 0.915". The October 1989 minimum measurement for the same area was 0.825". These data indicate a localized wall loss of approximately 0.090"/6 months. Concurrent with the wall loss was a band of reduced measurements just above the floor level as evidenced by horizontal scans TK2-H3C5 and TK2-H4C5. This band, which was not as pronounced in March 1989, currently extends for approximately 10 feet about the circumference.

10.0 DISCUSSION

10.1 Comparison of T-SCAN Data with DNV-QAS Preservice Baseline

A comparison of the minimum measured thickness of the automated surveys and the preservice grid measurements was made and the following table summarizes the results. It must be emphasized that the pre-service grid measurements were obtained after removing localized areas of paint. Hence, the grid measurements are without paint influence. Conversely, T-SCAN measurements were influenced by paint.

			DNV-QAS Data	T-SCAN Data
TANK NO.	QAS-Loc.	T-SCAN Image	Min T. Avg T.	Min T. Avg. T
1	0 9	TK1-93C4.4	0.850 0.862	0.850 0.885
1	05	TK1-S1C4.1	0.822 0.837	0.820 0.855
1	08	TK1-S5C4.4	0.833 0.838	0.815 0.855
1	07	TK1-87C4.4	0.845 0.850	0.850 0.870
2	17	TK2-S1C4.4	0.827 0.836	0.825 0.850
2	18	TK2-S7C4.4	0.835 0.839	0.820 0.845
2	19	TK2-S5C4.4	0.849 0.858	0.860 0.880
2	20	TK2-S3C4.4	0.825 0.838	0.835 0.860
2	22	TK2-S2C1.4	0.748 0.752	0.730 0.770
2	23	TK2-S2C2.1	0.742 0.746	0.780 0.770
8	29	TK3-S1C4.4	0.833 0.840	0.830 0.860
8	30	TK3-S7C4.4	0.848 0.854	0.845 0.860
3	31	TK3-S5C4.4	0.822 0.826	0.840 0.855
3	32	TK3-93C4.4	0.833 0.836	0.840 0.855
8	33	TK8-S4C4.1	0.826 0.833	0.815 0.850

10.2 Isolated Thin Areas

During evaluation of the data, several small isolated areas of thinning were noted. While it is possible that the thinning was the result of corrosion, it is likely that some of the 'pit' measurements were actually surface gouges or 'pock-marks' that existed at fabrication. A casual visual examination of the outside surface noted scattered areas of gouges (presumably from rolling) and small depressions. It is assumed that similar anomalies exist internally. External grinding was noted where alignment lugs were once welded during construction. Since the inside surface of the wall was smoothed by grinding and sandblasting, it is probable that shallow depressions remained after surface preparation. Indeed, adjacent to some girth welds, reduced thickness (by 0.010 to 0.060") was measured.

10.3 Tank #2 Wall Profile Changes

Following data evaluation and application of EVA, it was found that a general wall loss of approximately 0.015" has occurred since March 1989. However, a deviation of the general wall loss observation was identified in Scan 6, Course 5, Part 4 (File TK2-S6C5.4).

In March 1989, the minimum thickness for Image TK2-S6C5.4 was found to be 0.915". The October 1989 minimum measurement for the same area was 0.825". These data indicate a localized wall loss of approximately 0.030"/6 months. Concurrent with the wall loss was a band of reduced measurements just above the floor level as evidenced by horizontal scans TK2-H8C5 and TK2-H4C5. This band, which was not as pronounced in March 1989, currently extends for approximately 10 feet about the circumference.

10.4 EVA Results

The maximum predicted pit depth for the tanks was calculated to be:

TANK 1: 0.085" ± 0.020" TANK 2: 0.126" ± 0.020" TANK 3: 0.099" ± 0.015"

It is clear that Tank #2 has a general thickness distribution slightly less than Tanks 1 and 3. The comparatively small predicted wall loss of Tank 1 and Tank 3 is likely to be the result of plate nominal thickness variations and slight corrosion arising from condensation.

10.4.1 EVA Predictions and Tank #2 Measurements

Measured Wall Loss

The most significant reduction of wall thickness was found to be at the bottom of Scan 6, Course 5. The current (October 1989) minimum thickness of this scan area was found to be 0.825 inches. The average thickness of the steel plate in which the thinning occurred was measured in the pre-service baseline as 0.952 inches. Hence, the approximate wall loss may be found:

 $0.952 \cdot 0.825 = 0.127$ inches.

Predicted Wall Loss

The EVA calculations based on the data of October 1989 predict a maximum pit depth of 0.126 inches. This prediction is based only on part :02 data. The thinning detected in part :04 with a minimum measurement of 0.825" played no role in the EVA calculations. Hence, it is important to note that even if the thinning was <u>not</u> detected, the depth of pitting would have been predicted. The wall loss observed in Scan 6, Course 5 is, at this time, consistent with the pitting distribution model assumed in EVA calculations. It appears to be coincidence that the scan areas of the corrosion monitoring program include the 'worst-case' thinning.

10.5 Radiographic Observations

The minimum valve stem thickness, as determined by radiographic methods were found to be:

TANK 1: 0.530" TANK 2: 0.530" TANK 3: 0.525"

Slight corrosion was noted in V-7 and V-8 of Tank #2. Evidence of sediment or other substance build-up was observed with all tanks. A machine screw was detected in Tank #1, Valve #5.

APPENDIX 1
T-SCAN Data Tables and Hardcopy TANK 1:



FROM TO INCH mm INCH mm INCH mm EVA-T (mm) SICI 19 24 0.775 0.760 0.765 SICI 24 48 0.780 0.750 0.765 19.1 SICI 72 36 0.775 0.745 0.760 SICI 72 36 0.775 0.745 0.760 SICI 24 48 0.790 0.745 0.775 19.3	F. PT.		L	N a			DATA DATA	TAPE #: FILE #:		20.89
# FROM TO INCH mm INCH mm INCH mm EVA-T (mm) SICI					SU	MARY				
51C1 24 48 0.780 0.750 0.765 19.1 51C1 48 72 0.775 0.745 0.755 51C1 72 76 0.775 0.760 51C2 0 24 0.790 0.745 0.770 51C2 24 48 0.790 0.760 0.775 19.3	FILE #							1 .		COMMENTS
SICI 48 72 0.775 0.745 0.755 SICI 72 86 0.775 0.760 0.760 0.775 SIC2 24 0.790 0.760 0.775 19.3 SIC2 48 22 0.790 0.760 0.775 19.3	SICL	19	24	0.775		0.760		0.765		
SICI 72 36 0775 0.760 0.760 0.760 0.775 19.3 SICD 48 22 0.780 0.760 0.775 0.775	2161	24	48	0.780		0.750		0.765		19.1
SIC2 0 24 0.790 0.745 0.770 SIC2 24 48 0.790 0.760 0.775 19.3 SIC2 48 22 0.790 0.760 0.775	SICL	48	_72	275		0.745		0.755		
SIC2 24 48 0790 0760 0.775 19.3 SIC2 48 22 0.790 0.760 0.775	SICI	72	36	2775		0735		0.760		
SICO 48 000 000 000 000 19.3	5162	U	24	0.790		0.745		0.770		
	5162	24	48							19.3
51C2 22 36 0.790 0.770 0.770	5102	48	22	0.720		0.760		0.775		
	SIC2	22_	26	0790		0.740		0.770		
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SIC3		24	0.790		0.720		0765		
5163	24	48	<i>0.</i> 795		0.760		0.770		19.3
5163	48	72	0.790		0.760		0.775		
5163	_72_	96	0.785		0.745		0.760		
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SICY		_24_	2.885		0.820		0.855		,
5164	24_	_48_	0.875	· •	0.835	<u> </u>	0.850	· · · · · · · · · · · · · · · · · · ·	19.4
SICY	48		.0870 *		0 <i>8</i> 35		0.850		
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FROM TO INCH mm INCH mm INCH mm EVA-T (mm) ILCS 24 48 0.995 0.945 0.975 19.0 ILCS 24 98 0.995 0.975 0.975 0.975 ILCS 72 0.985 0.955 0.965	PE DIA F. PT.		I	N.		CI MMARY	RCUMF DATA ' DATA '	ERENCE: TAPE #: FILE #:		-c-87
11CS 24 48 0.995 0.975 0.975 19.0 11CS 48 72 0.990 0.970 0.975 0.965 0.965										COMMENTS EVA-T (mm)
SICS 4B 72 0.990 0.970 0.975 0.975 0.965 0.965	165	0	24	1000		0.965		0.985		
31C5 72 96 0.985 0.955 0.965	:165_	24	48	0.995		0.945	 -	0.275		19.0
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عدا	24	48	0.792		0.760	· · · · · · · · · · · · · · · · · · ·	0.770		19.3
عدا	48	72	0.790		0.770		0.775		
<u> 201</u>	72	26	0.785	,	0.755		0.170		
<u>ے دی د</u>	0	24	0.795		0.745		0.270		
563	24	48	0.795		0.760		0.270		19.3
20	48	72	0800		0.150		0.770		
<u> </u>	72	96	0.795	 	0.765		0.770		_
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5263	0	24	0900		0.755		0780		
5263	24				0.770		0.785	-	19.6
S2C3_	48		0.795		0.755		0.780		
<u>52C3</u>	72	26	0795		0770		0.780		
22CA	0	24	0.880		0.790		0.855		
צשכץ	}	48			0.840		0.860		19.3
5264	48	22	0.880		0.840		0.860		
5264	72	96	0.880		0.840		0.860		
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5265	0	24	1000		0920		0970		
5265	24	48	0.990		0.970		0.970		19.7.
525	48	22	0.995		0.965		0.975		
5265	12	9/4	1.000		0.960		0.975		
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S3CI	72	96	1		Ø.735		0760		
53(2		24	0815		@725		0.790		
SSCA	24	48	0810		0.785		A790		19.9
S3C)	48	72	0.8/0		2790		0.795	,	
53(2)	72	96	0.805		0.775		0790		
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53(3	_0_	24	0.805		0.735		0.785		
5343	24	48	0805		0.775		0.790		19.7
<u>5363</u>	48	72	0800		0.775		0.785		
5343	72	96	0800		0.765		0780		
5304		• • • •	0990		0.835		0.875		
5364	24	48	0900		0.870		0.885		19.4
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SHCI	24	48	0800		0.765		0780		19.4
5451	48	72	0.795		0.170		0780		
5461	72	56	0790		0.750		0.770		
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5462	0	24	2820		0.745		0115		
2473	34	48	0.795		0760		2775		19.3
SHCO	48	72	0795		0.760	****	0.775	, 	-
5462	72	96	0.795		0.755	٠	0.770		-
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5463		24	0.795		0.750		0765			
SHCZ	24	48	0790		0.745		0.760		18.9	
SHCS	48	72	0765		0.755		0.760	 		
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5464	0	24	088		0.825		085		-	
5464	24	48	0875		2825		0.855		19.1	
5464	48	72	0.870		0.825		0850	\ <u></u>	-	•
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5465	0	24	1.000		0.945		0.920		
5465	24	48	2.920		0960		0.970		19.5
<u>54C5</u>	48	12	0.995		0.955		0.975		
SHCS	_72_	96	0990		0.950		0.970		

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5561	_/9	24	0.800		0.115		0.790		(30,70)
55C1 55C1	24	48	0.795		0.770		0.785		19.6
5561	72	96	<u> 2795</u>		0.745		0.775		
5562		24	0.795		0.755		0.770		
55CD 55CD		48	0.785		0.765		0.775		19.4
S5C)		96	0.785		0.755		0.770		
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5563		24	0800		0.765		0.785		
555	24	48	0300		0.775	, 	2705		19.7
S5<3	48_	72	0.000		0.780		0.780		
5563	72	56	0.900	·	0.760	~~	0.785		-
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5564	0	24	0.875		0.825		0850		
5564	24	48	0.875		0.840		0.855		19.4
SSCY	48	22	0.875		0.815		0.855		
5564	72	96	0975		0.815		0.855	 	
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5565	0	24	0.990		0.940		0.765		
5545	24	48	0.980		0.955		0.965		19.5
5565	48	72	0.780		0.945		0.965		-
5545	72	96	0.980		2950		0.960		
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تهدا	_/9	1	2795	0775		0.785		
SloC1	24 48		0.800	0.775		0.790		19.7
SGC	72	96	0.800	0.750		0.790		
S/sC2	0	24	0800	0.25/5		0.790		
<u>درء</u>		i	0.000	 0:180		0790		19.8
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5/0(3	þ	24	0.805		0.765		0.795		
5143	24	48	0.805		0.790		0.795		20.0
5443	48	72	0.805		0.770		0.795		-
<u> ۲۵</u>	72	96	0.800		0.730		0.790		
51.64	0	24	0.875		e.835		a860		
<1,04	24	48	a875		0845		0.865		19.2
464	48	22	0.800		0.830		0865	<u> </u>	
51.64	72	96	0875		0.840		0.865		
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S6C5	MMENTS VA-T ~~)
SGC 5 48 22 0.980 0.950 0.965 0.965 0.965	
SCC5 22 96 0975 0.955 0.965	2.6
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FILE #	IDENT FROM	TO	DATA TINCH	MAX mm	DATA TINCH	MIN	DATA T INCH	AVG mm	COMMENTS EVA-T (mm)
57CL	_/9	24	0800		0.785		0.790		
57CL	24	48	0.800		0.780		0.795	·	19.8
sicl	48	72	0.805		0.785		0.795		
5761	22	96	0.805		0.760		0.795		
ราเว		ين ريور	0.785		0.765		0.780		
5742	يور	48	2795		סררם		0780		19.6
saca	48	_22_	2795		0.770		0.780		-
57C)	72	3/4	0795		0.755		0.775		
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FILE	IDEN FROM	TITY TO	DATA I	MAX mm	DATA 1	MIN	DATA T	AVG mm	COMMENTS EVA-T
57८3	0	24	0790		0.755		0.775		
5763	ابو_	48	0790		סדהם	, 	0775		19.6
5743	<u>-48</u>	72	0.790		0770	ļ	0780		
S7 C3	22	96	0.790		0760		2775		
5764	0	24	2.885		2830		0.870		
5764	24	18	0.885		0.860		0870		19.5
5764	48	72	0.890		0.800		0.870		
<u> </u>	_72	96	0.890	****	0850		0870		
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5045		رارو	/000		2.250		0.980		(mm)
5765.	يور_		1 1		0965		0.970		19.6
S7C5	48	22	0.990		0.965		0.970		
SICS	72	96	0985		0.940		0970		
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COMP. ID: PIPE DIA: REF. PT.	TAN	-#/ I	N.	011	C1	RCUMFI DATA	ERENCE: TAPE #:		26 - 89
FILE	IDEN		DATA 1	MAX	MARY DATA		DATA 7	1	COMMENTS
17	FROM	TO	INCH	mm	INCH	17×170	INCH	mm	EVA-T (mm)
SBCL	_/9	24	_*			-*-	***	-	
SBCI	24	48	.790		0.745		.765		18.9
SBCI	48	72	0.785		0.745		0.760		
SBCI	_72	96	0.285		0.250		0.760		
<u> ಽ೯୯೨</u>		74	0.800		0245		0.785		
5842	45	48	0800		0.740		0790		19.8
<u> </u>	48	22	0.800		0.780		0.290	,	
Saca		96	0.725		0.760		0.785		
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COMMENTS & OBSTRUCTION BY STAIRWELL. SCAN START = 27"									
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5863	24	48	0.800		0.775		0790		19.7	
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SACE	12	96	0.795		0.775		0.780			
5864	0	4د	0.685		0.820		0860			
3844	24	48	0.870		0845		0.855		19.5	
5864	48	72	0.885		0.840		0.860			
5864	12	96	0.895		0.845		0.820			
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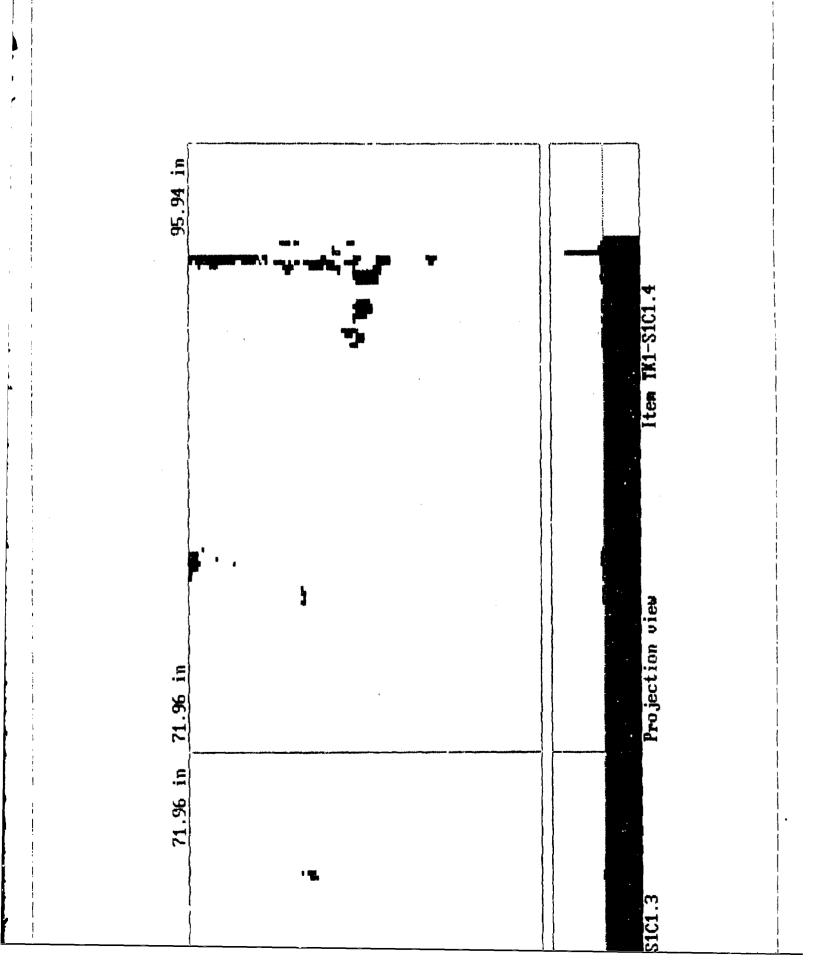
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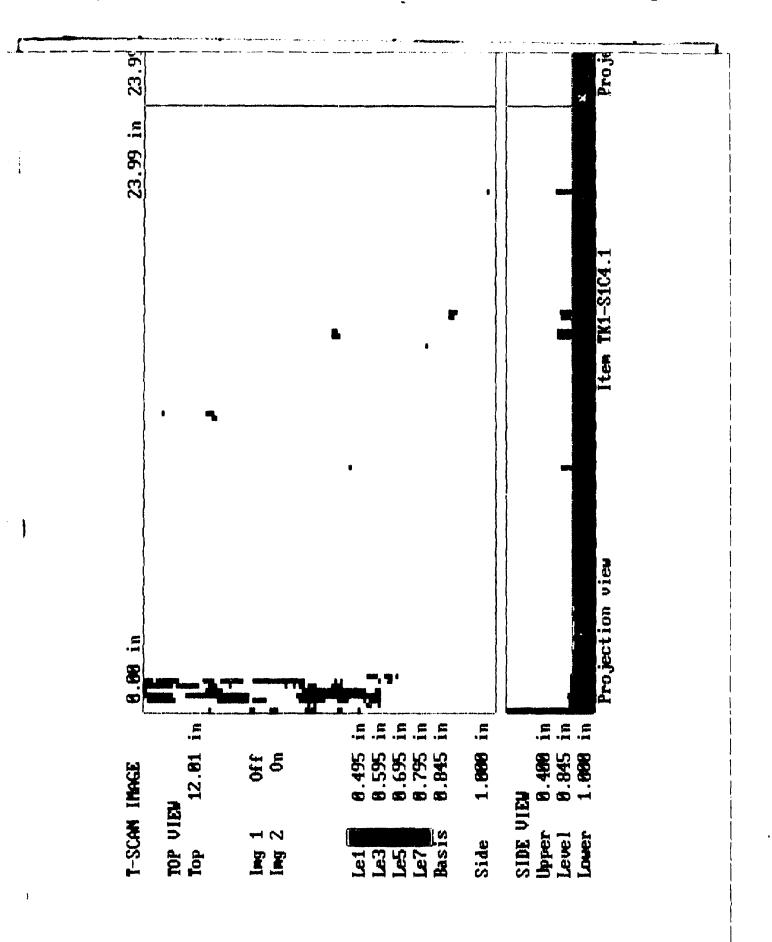
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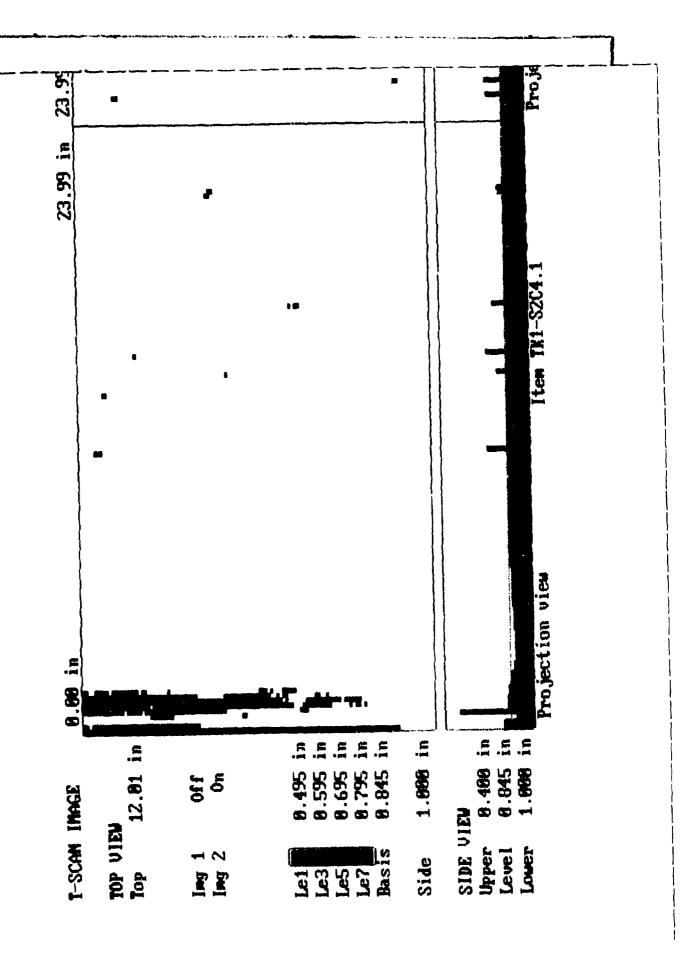
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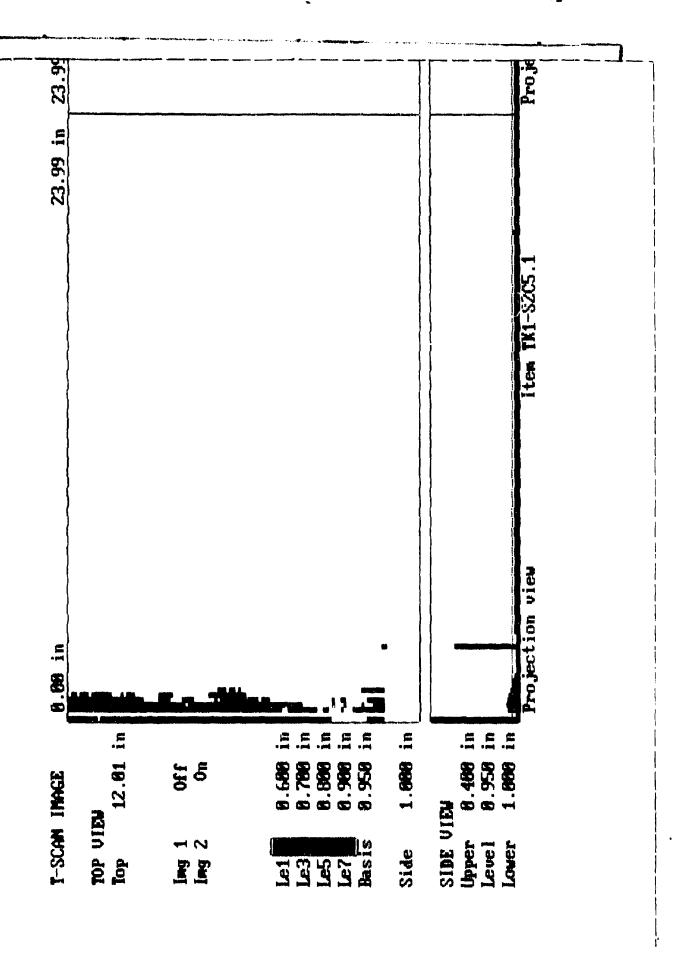
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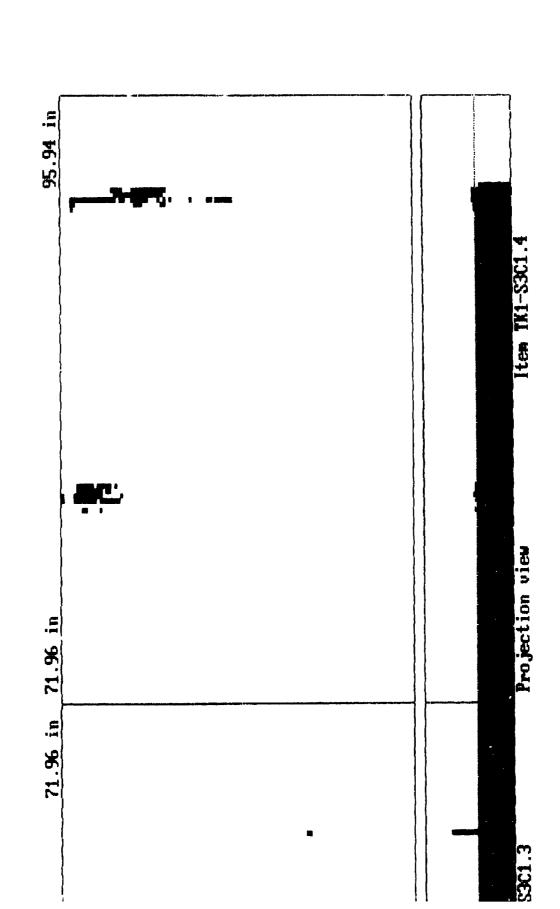
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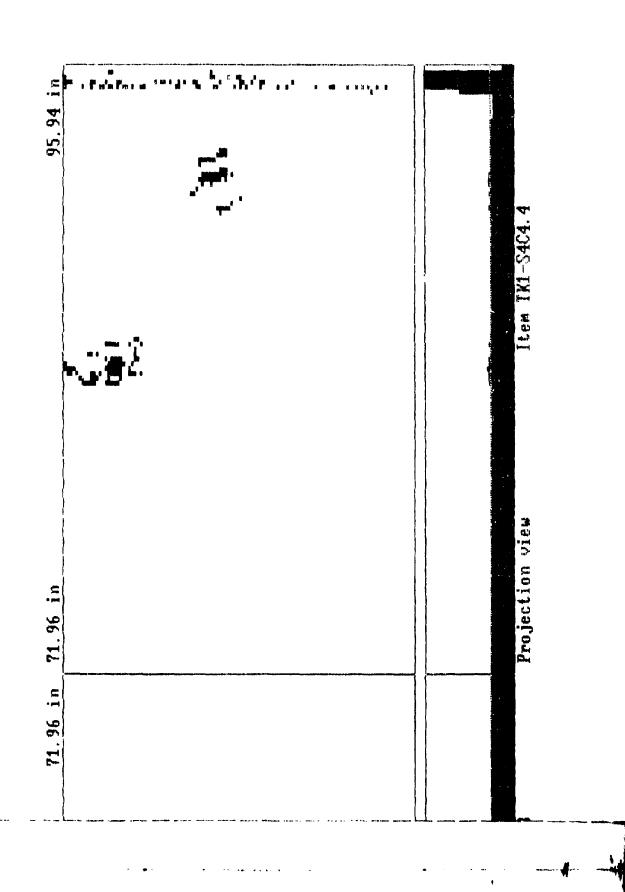
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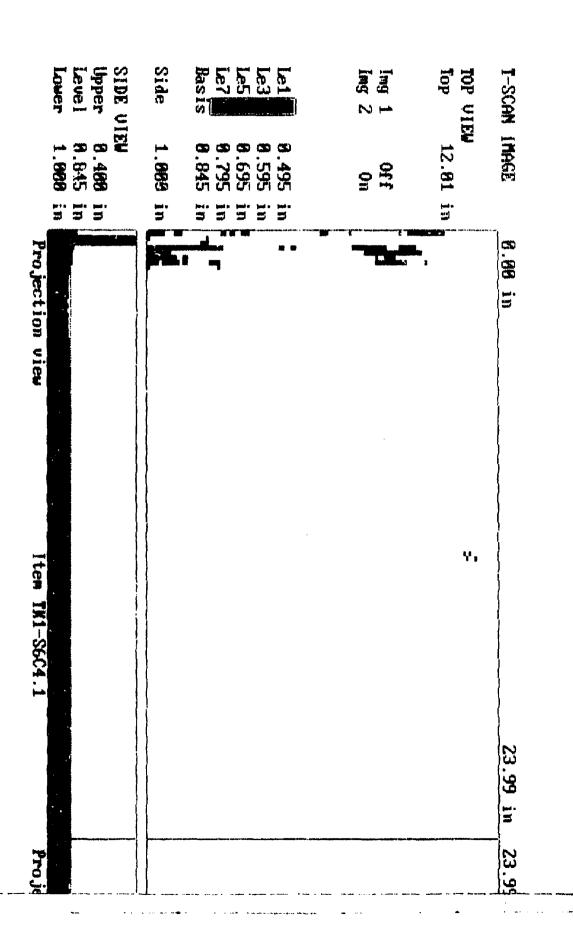
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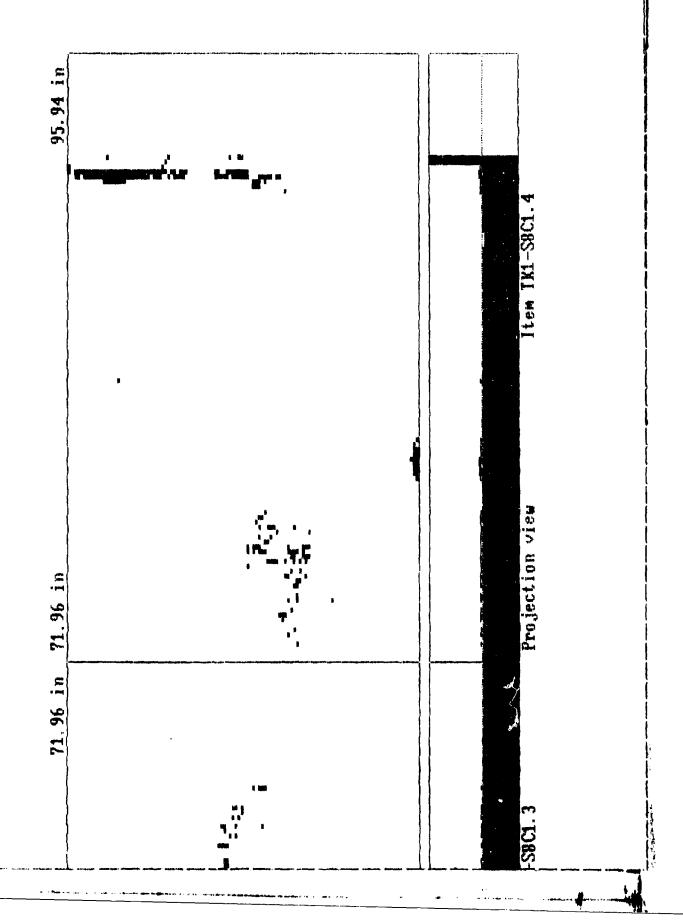
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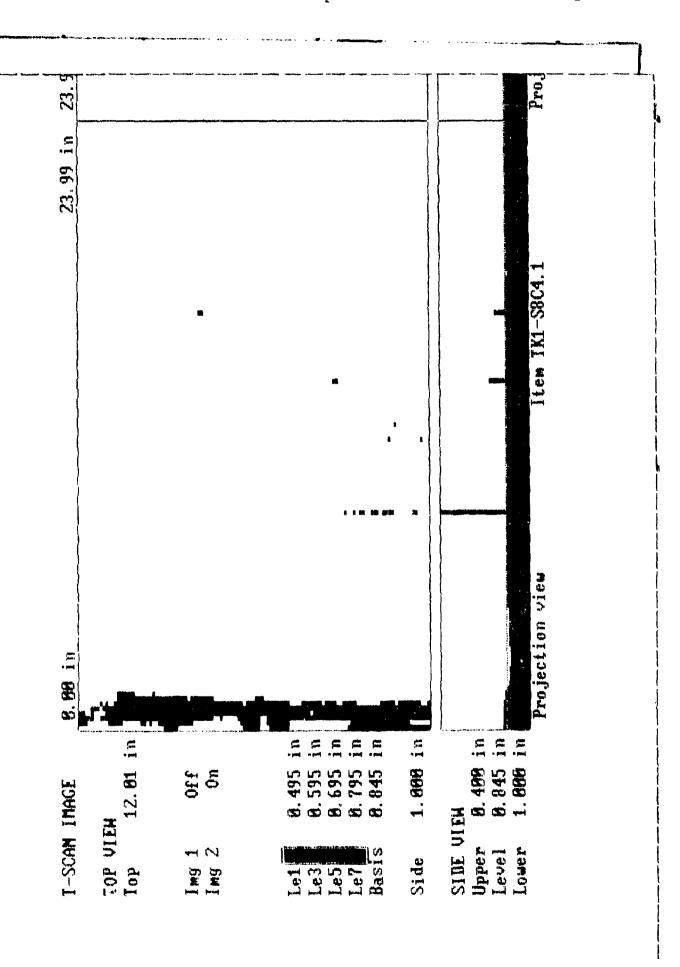
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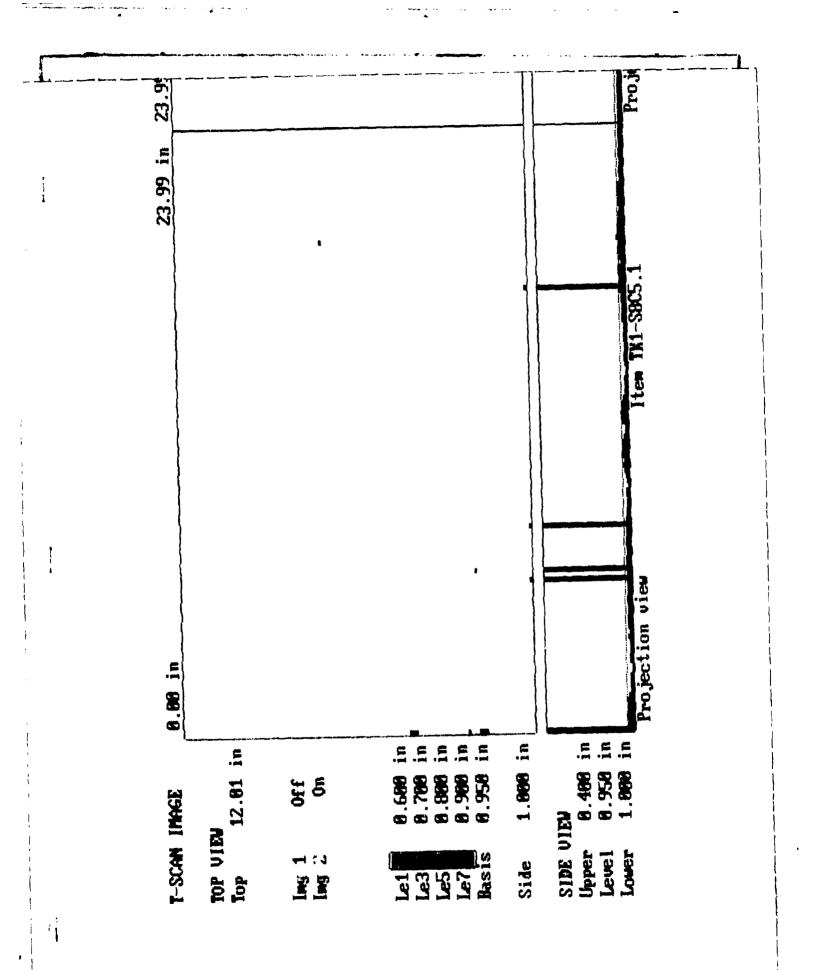
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APPENDIX 2
TANK 2: T-SCAN Data Tables and Hardcopy



CORROSCAN DATA SHEET	JOB #: <u>+154 89</u>	DATA SHEET #: 27
SITE: PMA	PAGE: OF	REF. CAL. SHT:
COMP. ID: TANK #3 PIPE DIA: IN	CIRCUM	AM DATE: 04 oct · R9 FERENCE: TAPE #: FILE #:
	SUMMARY	

FILE	IDEN		DATA T	MAX	DATA 1	MIN	DATA T	AVG	COMMENTS
#	FROM	TO	INCH	mm	INCH		INCH	mm	EVAT
									7-7774
SICI		24	0.795		0.760	-0.010	0.785		
SICI	24	48	0.795		0.745	-0.815	0 785		/8.7
SICI	48	72	0.775		0.770	-0.005	0.785		
SICI	72	96	0.790		0.765	+ 0.005	<u>0 785</u>		
5/62	0	24	0.785		0.750	-0.000	סרר.ט		
5/62	24	48	0 285		0.770	+0.005	0.775		19.6
5/52	48	72	<u> 785</u>		U.750	-0.010	0.775		
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CORROSCAN DATA SHEET	JOB #: <u>₹154.89</u>	DATA SHEET #: 28
SITE: RMA	PAGE: OF	REF. CAL. SHT:
COMP. ID: TANK # Z PIPE DIA: IN. REF. PT.	CIRCUM	AM DATE: 04.0c4.89 IFERENCE: TAPE #:

SUMMARY

FILE	IDEM		DATA		DATA 7	1	DATA T	r	COMMENTS EVA T
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<u> څادځ</u>	0	24	0.805		0.750	0.030	0.790		
SIC3	24	48	0.800		-	-0.005			19.8
5163	48	72	4.805		0.750		0.790		
SIC3	72	24	0.795		0.740	±0.005	0.785		
SICY	0	24	0875		a 225	-0.020	0.855		
SICH	24	48	0875		0.840	-0.005	0.855		19.4
SICH	48	72	0.875	· · · · · · · · · · · · · · · · · · ·	0.830	-0.015	0.855_	· .	
SICH	72	96	0.875		0.825	-0.015	0.850		
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COMP. ID: PIPE DIA: REF. PT.	TANK#2	•		CIRCUMF:	M DATE: ERENCE: TAPE #: FILE #:	04 act.	<u>89</u>

SUMMARY

FILE #	IDENT FROM	TO	DATA 1 INCH	MAX mm	DATA INCH	MIN AT	DATA I	AVG mm	COMMENTS EVAT MIN (+m)
SISS	0	24	0.995		0.910	-0.025	0.970		19.4
2212	24	<u> 48</u>	0.995		<u>0.955</u>	-0.015	0.970		77.4
SICS	48	7.2	<u>0.995</u>		0.915	-0.005	0.970		
SICS	72	56	2985		0.955	-0.010	0.970		
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CORROSCAN DATA SHEET	JOB #: P15489	DATA SHEET #: 36	-
SITE: RMA.	PAGE: OF	REF. CAL. SHT:	-
COMP. ID: TANK # PIPE DIA: IN REF. PT.	. CIRC	EXAM DATE: 040CT89 CUMFERENCE: TA TAPE #:	-

SUMMARY

FILE	IDENT FROM	TO TO	DATA 1 INCH	MAX mm	DATA T INCH	ΔT MIN	DATA T INCH	AVG mm	COMMENTS EVA T MIN (ma)
<u>52CI</u>	19	24	0.270		0.735	-0.015	0.760	مبناست، رست	
SZCI	24	48	o 175		0.735	-0.010	<u>0.77</u> 0		18.7
5201	48	72	6.335		0.745	<u>"n,000</u>	0.765		
5201	72	96	0.975		c. 730	+0.010	o.7 5 5		
52C2		24	0.785		0.730	-0.020	0.770		
5202	24	48	0.700		0.760	- 0.000	0.765		19.3
\$2C2	48	72	0,785		0.765	+0.005	0.770		
<u> </u>	72	96	0.79		0.750	-0.005	0.775		
					<u> </u>			<u> </u>	
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CORROSCAN DATA SHEET	JOB #: <u>P15489</u>	DATA SHEET #: 31
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COMP. ID: TALK # IN REF. PT.	. CIRCU	EXAM DATE: 050CT89 IMFERENCE: TA TAPE #: TA FILE #:

SUMMARY

FILE #	IDENT FROM	TO	DATA TINCH	MAX mm	DATA T INCH	MIN	DATA T INCH	AVG mm	COMMENTS EVA T MIN(MA)
5203	0	24	0.800		0760	<u>-0.005</u>	0.790		
<u>52C3</u>	24	48	0.810		0.780	+0.005	0.800		19.8
5263	48	72	0.810		0.700	+0.010	0,800		
<u>52C3</u>	72	96	0.805		0.775	+0.005	0.790		
<u>52C4</u>	0	24	0.895		0.845	-0.010	0.880		19.4
52C4	24	48	0.900		0.865	-0.000	0.880		/9. +
52C4.	48	72	0.900		0.860	10.005	0.885		
<u> 92C4</u>	72	96	0.895		0 860	-0.000	0.880		
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CORROSC	AN DATA SHEET	JOB #:	P154	89	IVATA SI	HEET #:	32
SITE: _	RMA		PAGE:	OF	REF. CAL	L. SHT:	
COMP. ID: PIPE DIA: REF. PT.	TANK	#2		CIRCUMF DATA	M DATE: ERENCE: TAPE #: FILE #:		789

SUMMARY

FILZ	IDENT FROM	TO	DATA TINCH	MAX	DATA T	Δ 1	DATA T INCH	MM MM	COMMENTS EVA T MIN(CE)
5205	0	24	1.000		0.945	-0025	o.985		
5265	24	48	1.005		0.970	-0.000	0.990		19.3
5205	48	72	1.005	_	0,970	-0.000	0.990		
5205	72	96	0.995		0.970	-0.000	0.985		
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COMMENTS	 S		.			.			

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EXAMINER:	_
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EMP. #: 7222

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CORROSCAN DATA SHEET JOB #	: <u>P15489</u>	DATA SHEET #: 33
SITE: RMA	PAGE: OF	REF. CAL. SHT:
COMP. ID: TAK #2 PIPE DIA: IN. REF. PT.	CIRCUM DATA	AM DATE: 050CT89 FERENCE: TAPE #: FILE #:

SUMMARY

FILE	IDENT		DATA T	MAX	DATA T	MIN	DATA T	AVG	COMMENTS
#	FROM	TO	INCH	ww	INCH	ΔΤ	INCH	mm.	MIN(mm)
<u> 53CI</u>	19	24	0.975		0.760	-0.000	<u>0.780</u>		
5361	24	48	0.810	·	0765	-0.005	0.790		19.4
5301	48	72	0.800		0.770	+0.005	0.785		
5361	72	96	0.800		o. 755	- 0.010	<u>0.785</u>		
53C2	0	24	0.775		0.745	-0.000	0.765		
5302	24	48	0.775		0.750	-0.010	0.765		10.1
5362	48	72	0.770		0.750	-0.010	<u>a 760</u>		
5302	72	96	0.770		0750	-0.005	0 965		
					<u> </u>				
COMMENT	S								

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EXAMINER:	So. U'lle	Lucy	LEVEL:	EMP.	. 1	#:	7222
EXAMINER:	year		I EVEL	FVP	4	٥.	
ETAUTHEY:	/		LEVEL:		• 7		



CORROSC	AN DATA SHEET	JOB #:	P154	89	DATA S	HEET #:_	34_
SITE: _	RMA		PAGE:	OF	REF. CA	L. SHT: _	
COMP. ID: PIPE DIA: REF. PT.		. <u>2</u> N.	and the state of t	CIRCUMF DATA	M DATE: ERENCE: TAPE #: FILE #:	05œ	T89

SUMMARY

			DATA T	MAX	DATA I	. WTW	DATA T	AVG	COMMENTS
	FROM	TO	INCH	<u>m</u> m	INCH	$\Delta \tau$	INCH	mm	EVA T
-						Δ'			MIN (mm)
5363	0	24	0805		0.755	0.030	0 790		
5303	24	43	0.805		0.780	-0.010	0790		19.8
5303	48	72	0.805		a 780				
3363	72		0,800		0.775		_		
5364	0	24	0.885		0.830	-0.015	0.865		
5304	24	4 -	5.880		1		0.865		19:4
5364	18		0.875	-			0.860		
53C4	72		0.875		Î	ļ	0.860		
			10		17.030	V V. V.			
					<u> </u>				
	 _								
COMMENTS		l		l	.		!	l <u></u> _	

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EXAMINER: Jallahryun EXAMINER:	LEVEL:	EMP. #: 7222 PMP. #:

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CORROSCAN DATA SHEET	JOB #: <u>P15489</u>	DATA SHEET #: 35
SITE: RML	PAGE: OF	REF. CAL. SHT:
COMP. ID: TANK PIPE DIA:I REF. PT.	N. CI	EXAM DATE: 050CT89 RCUMFERENCE: DATA TAPE #: DATA FILE #:

SUMMARY

FILE #	IDENT FROM	TO TO	DATA TINCH	MAX mm	DATA I	ΔT	DATA T INCH	AVG mm	COMMENTS EVA T MIN (AM)
5305	_0_	24	1.005		0.960	-0.010	<u>0.990</u>		
<u>53c5</u>	24	48	1,000		0.970	-0.000	0.990		19.3
3305	48	72	1,000		0.970	-0.020	0.990		
5365	72	96	1.000		0.970	-0.015	0.990		
									
] 	[
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COMMENTS	,———								
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EXAMINER:	

LEVEL: TK EMP. #: 7222

LEVEL: EMP. #:



CORROSCA	N DATA SHEET	JOB #: P-15	-1.89	DATA SH	HEET #:	36
SITE:	ANK # 2. RA	1A PAGE:	OF	REF. CAL	. SHT:	
COMP. ID: PIPE DIA: REF. PT.	TANK#2	Ι,	CIRCUME DATA	M DATE: FERENCE: TAPE #: FILE #:	07 · 0ct	89
		SUM	MARY			
FILE	IDENTITY	DATA T MAY	DATA T MIN	DATA T	AVG	COMMENTS

FILE	IDEN		DATA 1	ì	DATA 7	MIN	DATA 7	1	COMMENTS
#	FROM	ŢO	INCH	mm	INCH	AT	INCH	mm	EVA-T
									(7)
SUC	_/9	24"	285		<u> </u>	-0.000	0.770		
5461	24	48	0.790		0.745	-0.005	0765		18.9
ऽपटा	48	72	0750		0.755	+0.010	סרדם		
SHCT	72	96	0.790		0.710	-0.015	0.765		
5467	0	24	0.790		0.7/5	-0.030	0770		
5462	24	4/8	0.790		0.760	10.010	0.775		19.3
रतरज	48	7.2	0.790		0.760	+0.010	0.770		. •
<u> इतरत्र</u>	72	96	0.785		0.735	-0.010	0.765		
							<i>?</i>		
				-					
COMMENTS	5		مر احد سینالوینه 1	1	· · · · · · · · · · · · · · · · · · ·				

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ITL REVIEW: LEVEL: __

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CORROSCAN DATA SHEET	JOB #: P-154-89	DATA SHEET #: 37
SITE: RMA	PAGE: OF	REF. CAL. SHT:
COMP. ID: Tank # Z PIPE DIA: IN REF. PT.	. CIRCUM DATA	AM DATE: 07 oct 89 IFERENCE: A TAPE #:

SUMMARY

FILE	IDENT		DATA I	MAX	DATA T	MIN		` AVG	COMMENTS
#	FROM	TO	INCH	mm m	INCH	ΔΤ	INCH	mm	EVA-T
5463	0	24	0.790		0.735	· 0.000	<u>0.765</u>		
5463	24	48	0.795		0.745	+0.010	0.775		18.9
SYC3	48	7.2	0:195		0.740	+ 0.000	0.775		
SHC3	72	9%	0.745		0.760	+0.010	0.770		
5464	_0_	24	0.900		0.815	±0.010	0.880	<u> </u>	
SHCH	24	4/8	0.900		0.870	+0.005	0.880		19.5
ट्सट्स	48	72	0.905		0.870	+0.010	0.880		
2464	בר	96	0.900		0.850	-0.005	0.875		
			·	 	.				
			.		<u> </u>				
COMMENT	S							·	



SITE: _	RM	A		PAGE	OF		REF. CA	L. SHT:	38
PIPE DIA: REF. PT.		II	٧.		CI MARY	RCUMFE DATA T DATA F	RENCE: TAPE #: TILE #:		<u> </u>
FILE #	IDENT FROM	TITY TO	DATA 1 INCH	MAX mm	DATA 1		DATA 1	AVG	COMMENTS EVA-T (mm)
	0				0.955	<u> +0.010</u>	0.975		
1	24	1	[0.970	±0.000	<u>0.980</u>		19.5
1	48]			0975				
<u>54c5</u>	72	96	1.000		0.955	+0.010	0.980	·	
· · · · · · · · · · · · · · · · · · ·									
	<u> </u>	 							
COMMENT	S		,	1					
EXAMINER EXAMINER		Uh	So	plet-	LEVE LEVE	L: <u>7</u>		MP. #: DOP. #:	7222

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	PMA				• OF	EXAM	REF. CA	L. SHT	: <u>39</u> :
REF. PT.			•••		V-	DATA I	APE #:		
				SU	MMARY				
FILE #	IDENT FROM	TO	DATA TINCH	MAX mm	DATA T	MIN	DATA T	AVG mm	COMMENTS EVA-T (mm)
55(1	19	24	0.5∞		0.770	-0.005	0.785		
SSCI	24_	48	0.805		0760	-0.015	0775		19.3
SSCI_	48	72	0.800		0.775	-0,000	0.790		
5561	72	90.	0.800		0.740	-0.030	0.780		
		 	_		ļ				
550	0	24	0.805		0.760	-0.000	0.780		
55(2	24	48	0.700		בדנם	-0.000	<u>0.785</u>		19.7
55CQ	48	72	0.800		0.770	-0.005	വുട		
5502	?2	96	0.900		0.760	-0.005	0785		-
									
				 	-				-
COMMENTS								<u> </u>	
	-								
			ı	1					
EXAMINER EXAMINER		Mil	S	M.	LEVE	L: Z	// E	YP. #: YP. #:	7222

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SITE: _	RMA			PAGE	OF	EXAN	REF. CA	L. SHT:	40
COMP. ID: PIPE DIA: REF. PT.		I	N .		cı	RCUMFE DATA T	RENCE:		
				ÇIII	MARY	DATA F	FILE #:		
FILE	IDEN	ייייע	DATA I		DATA 2	C MTN	DATA 7	r AVC	COMMITTE
#	FROM	TO	INCH		INCH	ΔT	INCH	mm	COMMENTS EVA-T (mm)
5563	_0_	<u> </u>	ಎ.೩೦ಽ		0.755	-0020	0.785		
SSC3	24	<u> 니용</u>	0.795		0.760	-0.000	0.770		19.3
<u>SSC3</u>	4/8	72	0.750		0745	-0.005	<u>0.775</u>		
5543	22	96	0.790		0.755	-0.005	0.770		
	·								
5564	_	24	0.900		0.795	-0.050	0.875		
5564	24	48	2.700		0.870	-0.000	0.875		19.6
5564	48	_72_	0.900		0.845	-0.000	0.880		
S5C4	72	96	0.200		0.860	10,010	0.880		
							 	<u> </u>	
			-		 -				
COMMENTS	3	Í <u></u>]				l	<u> </u>	
				0					
EXAMINER: EXAMINER:		Man	John	fur	LEVE	L: <u>7</u>	Z E	MP. #:	7222

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OMP. ID: IPE DIA: EF. PT.		II	# <u>2</u> N.			EXAM IRCUMFE DATA T DATA F	DATE: RENCE: APE #: TILE #:	07	DCT 89
	7555	Tens	15.74		MMARY	- \ <u>-</u>			Leonarismo
FILE #	IDENT FROM	TO	DATA T	mm.	INCH	MIN AT	DATA I	MVG mm	COMMENTS EVA-T
5 <i>50</i> .5	0	24	1.005		0.910	-0.055	0.980		
	24	i .			0.965	1			19.5
	48	ł ·		1	{	1	0970		
5545	72	96	0.995		0.955	-0.010	0.970		
						-			
									-
					-				
					-	-			
					-				_
COMMENT:			.		_	_			
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ITL REVIEW:

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COMP. ID: PIPE DIA: REF. PT.		□ II	<u>+2</u> v.			RCUMFE DATA T	DATE: RENCE: APE #: ILE #:		-T89
				SU	MARY				
FILE #	IDEN FROM	TO TO	DATA 1 INCH	MAX mm	DATA T INCH	VIW .	DATA T INCH	AVG mm	COMMENTS EVA-T (~~)
56C1	19	24	0.800		0.760	-0.015	0.180		
SECI	24	l			0.760				19.3
SECI	48] 1		0.745				
SGCI	72	96	0.700		0.750	ļ ļ			
S6C2	0	24	0.800		0.740	-0.035	0.780		
5/062		48	0.805		ł	}	0.790	}	19.7
56C2	48	ļ	0.505		1	<u> </u>	0.180	}	
Secz	72	96	0.800		1]	0.785	1	
 	·								
					-			<u> </u>	
COMMENTS	<u> </u>	l	.	<u> </u>	.		<u> </u>	<u> </u>	
				1	····				
EXAMINER	: Last	Uller	Les	Man	LEVE	L: <u> </u>		MP. #:	7222

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OMP. ID: PE DIA: IF. PT.	TA	EXAM DATE: 070CT89 IN. CIRCUMFERENCE: DATA TAPE #: DATA FILE #: SUMMARY									
FILE	IDEN	7	DATA T			MIN AT	DATA T	AVG	COMMENTS EVA-T (mm)		
56C3	0	24	0.810		0.755	-0.025	0.795				
S6C3	24	48	080		1		0.800		20.1		
56C3	48	72	0810		0790	+0.005	0.795		-		
5 <u>6</u> C3	72	96	0.805		0.775	+0.005	0.790				
56C4	0	24	0.900		0.830	-0.085	0.875				
56CA	24	48	0900		0.870	-0.000	0.885		19.4		
56C4	48	72	0.900		0.865	~ 8. 005	0.880		_		
56CA	72	96	0.900		<u>v.855</u>	-0.005	<u>0.875</u>				
								•			
COMMENTS			- I		- I ·	.1			-1		

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MP. ID: PE DIA: F. PT.		بر ال	#2		— сі	EXAM RCUMFE DATA I	DATE: RENCE:	07	PRTIO
						DATA F	TILE #:		
				SU:	MARY				
FILE #	IDENT FROM		DATA T	MAX mm	DATA T	MIN ΔT	DATA I INCH		COMMENTS EVA-T (mm)
56C5		24	0.995		0.930	-0.010	0.970		
5605	24	48	0.995		0.910	+0.010	0.975		19.6
S6C5	<u>48</u> 72	72	0.990		0.950	-0.010	0970		
56C5	72	96	0.980		0.830	-0.085	0.925		
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			-		-				
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COMMENTS	3		. 1	l		.]			l

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OMP. ID: IPE DIA: EF. PT.	TANK	<u> </u>	N.			RCUMFE DATA T	RENCE: APE #:		<u>ce-89</u>
				SU	MMARY				
FILE	IDEN FROM		DATA TINCH	MAX mm	DATA TINCH	MIN AT	DATA T INCH	AVG mm	COMMENTS EVA-T (mm)
5761	19	24	0.815		0.795	+0,006	0.500		
STCI	24	48	0.525		0.795	+0.010	0.810		20.2
STCI	48	72	0.830		0.765	10.000	0.8.0		
STCI	72	96	೦.೪೨ಽ		0.725	-0.0do	୦. ଧାଦ		-
								,	_
STC2		24	0.780		0.730	-e.005	0.765		
57 <i>c.</i> 3	24	48	0.780		0.750	10.010	0.765		19.1
57c2	48	72	0.780		0.760	+0.015	0.765		
saca	72	96	0.780		عدتو	10.015	0.760		
·		-	-						-
		-	-						_
		_	_						
COMMENT	 S		_		.	.		l	

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LEVEL: _____ EMP. #: 7222 LEVEL: ____ EMP. #: _____

ITL REVIEW:



OMP. ID: IPE DIA: EF. PT.	TANK	=/) I	й.		CI	IRCUMFI DATA I	ERENCE:		C 6 · 8 9
FILE	IDENT FROM	TO	DATA T		DATA TINCH		DATA T	AVG mm	COMMENTS EVA-T
snc3	0	24	0.790		0.740	-0.020	مدده		
STC3	24	- 년 <u>8</u>	0.795		معدم	+0.0/5	0.7.75		19.1
STCS	48	72	0.790		0.765	-0.000	ברום.		_
5763	72	96	مورو		225.0	-0,000	<u>٥:٦٦5</u>		-
	************								_
<u> ३१८ ५</u>	_ ပ	24	0.870		0.795	-0.040	0.850		-
בשבא	24_	7/8	0.370		0.840	-0.000	مهجن		19.5
snc4	48	72	0.865		0.820	-0.010	0.845		_
57 <i>24</i>	72	96	C-865		0520	-0.010	0.845		
					-				
COMMENTS	3			-			l		

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COMP. ID: PIPE DIA: REF. PT.	TAN	I I I	N.		CI	L ATAC	CAPE #:		<u> </u>
FILE #	IDENT FROM	TO TO	DATA TINCH	MAX mm	DATA 1 INCH	MIN AT	DATA 1 INCH	AVG mm	COMMENTS EVA-T (mm)
5765			0,990		عدده				10 F
57C5 57C5	.48 .48	48 72	0.990 0.935				0.170		19.5
STCS	72	96	C2.985		0.760	-0.005	0.965		
									·
				1					
COMMENTS					l	l	l	l	_
EXAMINER: EXAMINER:		Cla	LA	gu 1		L: <i>][</i> [MP. #:	7222

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			•	DATA T	MARY	su				F. PT.
たこへ	COMMENT EVA T MIN (AVG	DATA TINCH	MIN AT	DATA T	MAX mm	DATA TINCH	TITY	IDEN. FROM	FILE #
			0.750	-0.035	0.720		0.765	24	_/2	1581
	18.3		0.760	-0.015	0.720		0.775	4/8	24	SACI
	-		<u>Q. 755</u>	-0.010	0.735		0.765	72	48	1281
			۵.755	10.005	0.735		0.770	94	72	Sası
	18.7		0.765	-0.015	0.735		0.715	24	0	862
			0.765	-0.010	0.735		0.730	48	24_	862
	-	<u> </u>	0.745	-0.005	0.745		0.780	72	48	865
· · · · · · · · · · · · · · · · · · ·			0.760	-0.035	0.120		0.790	94	22	5862
								-		
•									S	:OMMENT
			0.745	-0.005	0.745		0.780	22	48 72	S8C2 S8C2 COMMENT



FROM TO INCH mm INCH AT INCH mm EVA T MIN (w) S8C3 0 24 0.785 0.745 -0.005 0.770 19.2 S8C3 24 48 0.780 0.785 -0.005 0.770 19.2 S8C3 72 94 0.785 0.785 0.780 0.770 S8C4 0 24 0.870 0.935 -0.005 0.850 19.4 S8C4 24 48 0.845 0.840 -0.855 0.855				*******			D14	• HICH	u3(1)(al Del VI
SITE: DMA PAGE: OF REF. CAL. SHT: DMP. ID: TANK #2 IN. CIRCUMFERENCE: DATA TAPE #: DATA TAPE #: DATA FILE #: SUMMARY FILE IDENTITY DATA T MAX INCH AT INCH INCH INCH INCH INCH INCH INCH INCH	CORROSO	CAN DATA	SHEET	JOB #	: <u>P15</u> 4	P8-1	_	DATA S	HEET #	: 49
DMP. ID: TANK 10. EXAM DATE: 04 04 89 IPE DIA: IN. CIRCUMFERENCE: DATA TAPE 11. DATA TAPE 12. DATA T MAX DATA T MIN DATA T AVG COMMENTS FROM TO INCH mm INCH AT INCH mm EVA T MIN (ex.) SSC3 0 24 0.785 0.745 -0.005 0.710 17.2 SSC3 24 48 0.780 0.755 -0.005 0.710 17.2 SSC3 72 94 0.785 0.795 -0.005 0.795 0.795 SSC4 24 2870 0.795 -0.005 0.795 0.795 SSC4 24 2870 0.795 -0.005 0.795 0.795 SSC4 24 2870 0.795 0.795 0.795 0.795 SSC4 24 2870 0.795 0.795 0.795 0.795 SSC4 24 2870 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.795 0.795 0.795 0.795 0.795 0.795 SSC4 27 2870 0.795 0.79										
SUPMARY FILE IDENTITY DATA T MAX DATA T MIN DATA T AVG COMMENTS EVA T MIN INCH mm INCH MIN						· <u> </u>				`
SUPMARY FILE IDENTITY DATA T MAX DATA T MIN DATA T AVG COMMENTS EVA T MIN INCH mm INCH MIN	OMP. ID:	TANK	<u>ر</u> اد	N.			EXAM	DATE:	04 0	x £ 89
SUPMARY FILE IDENTITY DATA T MAX DATA T MIN DATA T AVG COMMENTS EVA T MIN INCH mm INCH MIN	EF. PT.	·	+	и.		C.	DATA T	TAPE #:		
FILE IDENTITY DATA T MAX DATA T MIN DATA T AVG COMMENTS FROM TO INCH mm INCH AT INCH mm EVA T MIN (m) S8C3	¥ - 						DATA F	TILE #:		
# FROM TO INCH mm INCH AT INCH mm EVAT MIN (m) \$88.3					su	MMARY				
\$863 0 24 0.785 0.745 -0.005 0.770 /9.2 \$863 0 24 48 0.780 0.755 -0.005 0.770 /9.2 \$863 48 72 0.785 0.745 -0.000 0.770 \$863 72 96 0.785 0.785 -0.005 0.770 \$864 0 24 0.870 0.885 -0.005 0.850 /9.4 \$864 48 72 0.865 0.875 0.855 0.856 \$864 72 96 0.870 0.825 -0.005 0.850	FILE	IDEM	YTI	DATA T	MAX	DATA :	MIN	DATA 7	r AVG	COMMENTS
\$863 \(\text{O}\) 24 \(\text{P185}\) \(\text{O.7195}\) -0.06 \(\text{O.710}\) \(O.710	#	FROM	TO	INCH	mm	INCH	1 AT	INCH	mm	
\$8C3				-		-	<u> </u>			/7/N (M)
\$8(3	5863		24	0.785		0.745	-0.015	_ פננים		_
58C3 72 96 0.785 0.755 -0.000 0.770 58C4 0 24 0.870 0.945 -0.015 0.850 79.4 58C4 74 48 0.845 0.840 0.855 0.855 58C4 72 0.865 0.855 0.855 58C4 72 96 0.870 0.825 -0.015 0.850	5863	24	48	0.780		0.755	-0.005	סדרים		19.2
58C3 72 96 0.785 0.755 -0.000 0.770 58C4 0 24 0.870 0.945 -0.015 0.850 79.4 58C4 74 48 0.845 0.840 0.855 0.855 58C4 72 0.865 0.855 0.855 58C4 72 96 0.870 0.825 -0.015 0.850	C9/3		72			A 7.45				
5864 0 24 0.870 0.835 -0.05 0.850 79.4 5864 72 0.865 0.835 -0.06 0.855 5864 72 96 0.870 0.835 -0.06 0.850	2007	78		0.185		0.145	-0.000	0.7.10		-
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5864 74 48 0.845 0.840 -0.855 0.855 19.4 5864 72 0.865 0.835 -0.06 0.155 0.155 5864 72 96 0.870 0.835 -0.06 0.850										
5864 48 72 0.865 0.835 -0.06 0.155 5864 72 96 0.870 0.835 -0.06 0.850	SRCH	<u></u>	29	0.870		0.835	-0.0/5	0.850		19.4
S8C4 72 96 0.870 0.935 -0.015 0.850	5864	24	48	0.865		O.840	-0.005	<u>0.855</u>		
S8C4 72 96 0.870 0.935 -0.015 0.850	5844	48	72	0.865	, ,	0.835	-0.005	0.155	,	·
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FILE #	IDEN FROM		DATA TINCH	MAX mm			DATA T		COMMENTS EVA T MIN (min
5865	_0	24	1.000		0.940	-0.010	0.780	_	
<u> </u>	24	48	1.000		0.970	-0.005	0.985		19.4
5865	48	22	1.005		0.945	+0.005	0.985		
secs	72	26	1.000		0.965	-0.010	0.980		
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COMP. ID: PIPE DIA: REF. PT.		بر II	<u>₩2</u>		CI	EXAN RCUMFI DATA 1 DATA 1	1 DATE: ERENCE: TAPE #: FILE #:	050	<u>68720</u>
FILE #	IDENT FROM		DATA I		DATA 1 INCH	MIN	DATA T	AVG	COMMENTS EVAT MIN
HIC5	0	24	0,995		0,045		0.960		
HIC5		48	0.995		0.945		0,960		NA
H1C5	48	72	1,000		0.950		0975		
H1C5	72	96	0.995	• 	0.950		0.965		
H1C5	96	108	0.995		0.955		0.970		
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COMP. ID: PIPE DIA: REF. PT.		IN	l .		CI	EXAM RCUMFI DATA 1 DATA 1	1 DATE: ERENCE: TAPE #: FILE #:	09 (oct 89
FILE #	IDENT FROM		DATA T	MAX mm	DATA T	MIN	DATA I	AVG mm	COMMENTS EVA-T
TK 2 H265 TK 2		24	1.000		0970		0.985		(mm)
1/2C5 7/2 2	24	48	1		0.970		0.985		NA
HZL5 Tk 2 HZL5	48 72	96	1005		0.970		0.980		
TKZ HZC5	96	120			0.970		0.980		
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COMP. ID: PIPE DIA: REF. PT.	TANK	I	N .		— CI	EXA IRCUMF DATA DATA	M DATE: ERENCE: TAPE #: FILE #:	/9-00	. t · 87
FILE	IDEN FROM		DATA 1	MAX mm	DATA I	MIN	DATA T	AVG mm	COMMENTS EVA-T
H3C5		24	0.970		0.910		0.945		
H3C5	24	48	0.965		0.865		0.720		N/A
H3C5	48	72	0.965		<u>σ.825</u>		0.905		-
HSCS	_ 72	86	0.970	<u> </u>	0.890		0.940		-
H3(5	- 56	120	0.965		0.885		0.230		
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FILE #	IDEN FROM		DATA 1	MAX mm	DATA T INCH	MIN	DATA I INCH	AVG	COMMENTS EVA-T (mm)
1405	0	24	1005		0.945		0.975		
1465	24	48	0.996		0.915		0.965		N/A
14C5	48	72	0.980		0.205		0.955		
1465	7.2	5%	0.985		0.945		0.970		-
1465	96_	120	0.975		0.930		0.960		-
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TOP UIEH Top 12	12.81 in				
Ing 1 Ing 2	Off On				
Le 1 Le 3 Le 7 Le 7 Basis 99.	9.488 in 9.588 in 9.588 in 9.788 in				1
Side 1.	1.888 in				
SIDE VIEN Upper 6. Level 6. Lower 1.	6. 488 in 1. 888 in 1. 888 in				
		Projection view	Item TK2-S1C1.1	Pro	Projection

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95, 94 in			
			Item IK2-S1C1.4
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71.95 in			Projection view
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TOP UIEM Top 12.91	i.		
Ing 1 Off Ing 2 On			
Le1 9.466 Le3 6.586 Le5 6.696 Le7 6.798 Basis 6.758	H H H H H		
Side 1.888	5		
SIDE UIEH Upper 8.488 Level 8.758 Lower 1.868	- based - based - based large large large	Projection view Item TK2-S1C2.1	

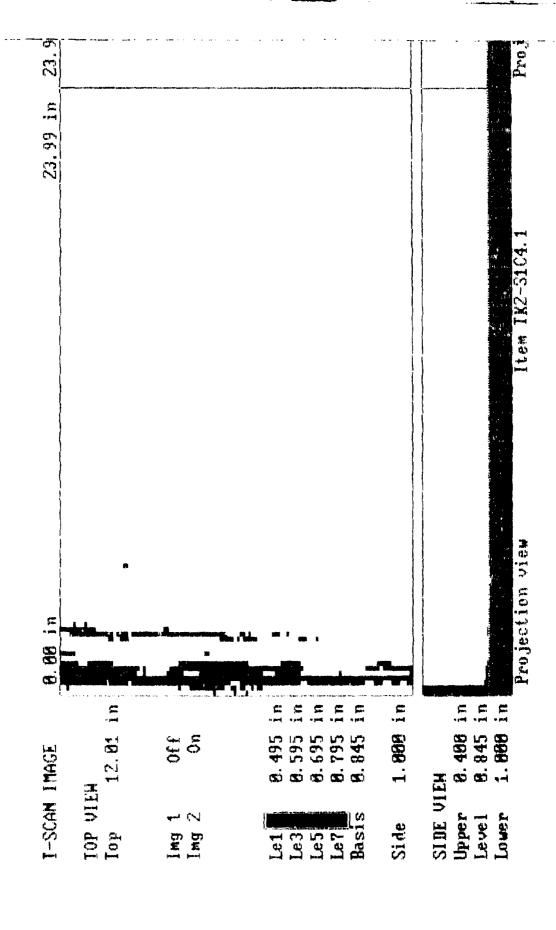
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1	ection view Item TK	2-S1C2. 2	Projection view	E GO Partie
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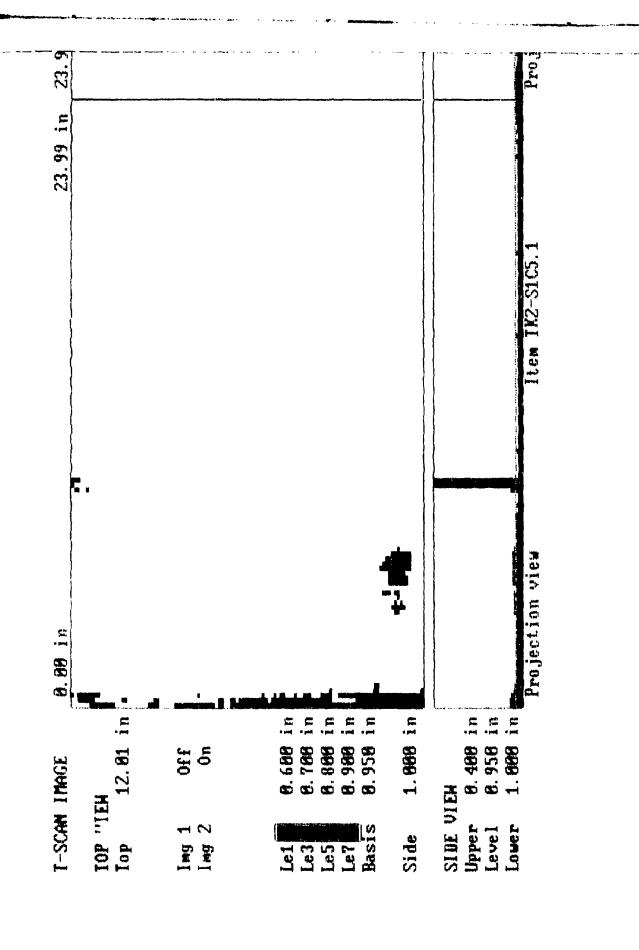
T-SCAN INAGE	IMAGE	-	8.98 in 2:	23.99 in	23.99
TOP VIEW Top	EV 12.81 in	4 pol	l'a am		
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Les Les Les Rasis	9.500 9.500 9.500 9.730 9.730				
Side	1.868	S			
SIDE VIEW Upper 8. Level 8. Louer 1.	85 50 80 80 80 80	2.2.2	Projection view Item TK2-S1C3.1		Proje

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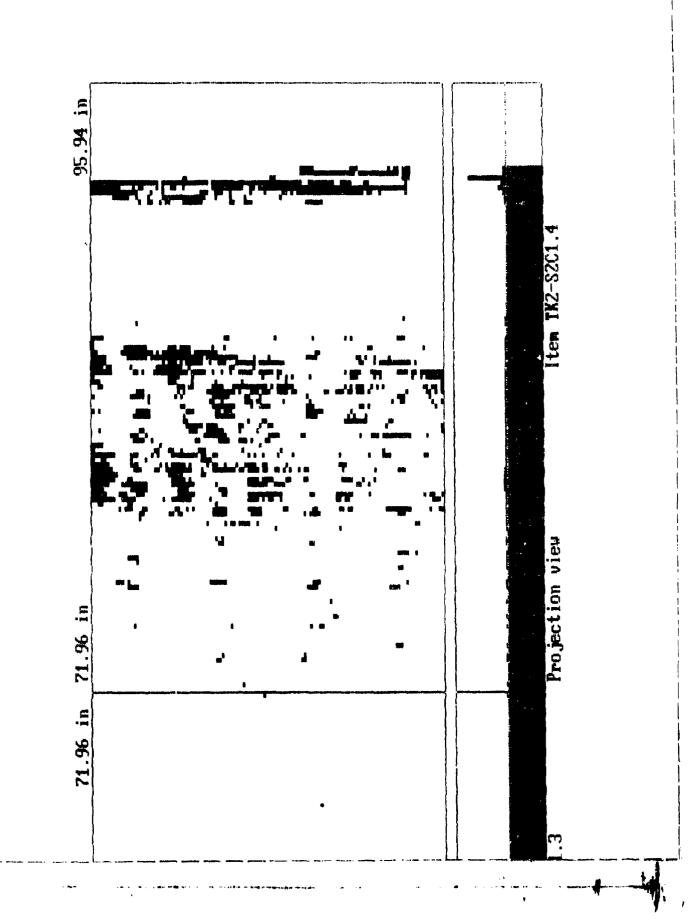
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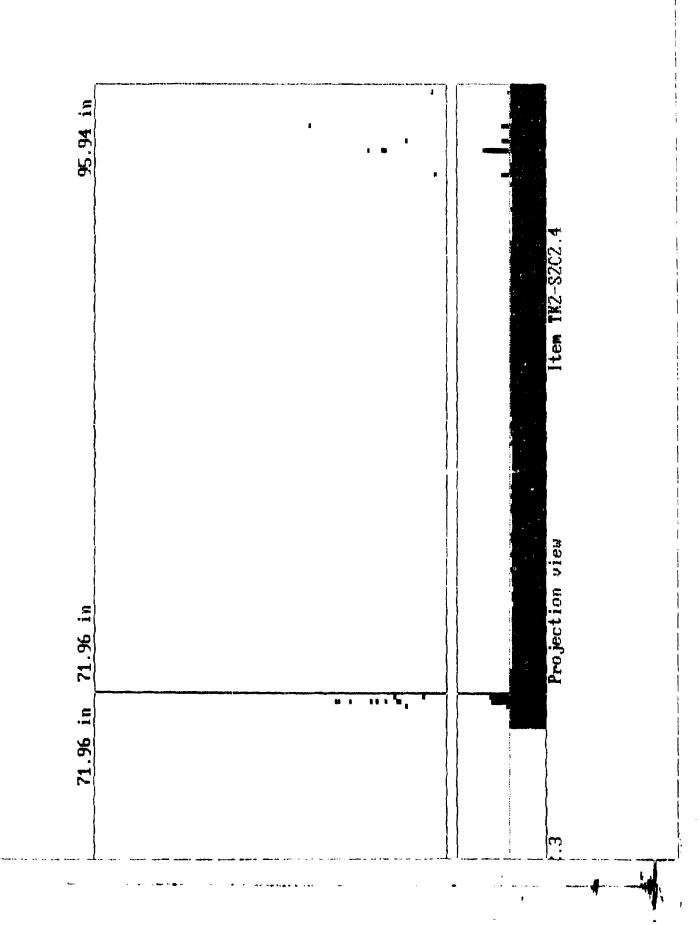
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T-SCAN	T-SCAN INAGE	8.89 in	23.99 in	Ì	23.99 ii
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Ing 1 Ing 2	Off G	NOTE - William Account of these shape as a			. 5
Le1 Le3 Le7 Le7 Bas is	9.486 in 8.586 in 8.686 in 8.786 in				
Side	1.888 in				
SIDE VIEW Upper 8 Level 8 Lc ve 1	8.488 in 8.758 in 1.888 in				
		Projection view	Item 182-8201.1	ď	Pro iprt



Item TX2-52C2.1	Item TKZ-S2C2.1	12.81 in	Off On 0.488 in 8.588 in	8.750 in 1.880 in Projection view
			A	Item TK2-S2C2.1

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I-SCAN IMPEE	INACE		6.62 III 55.52
TOP VIEW Top	12.61	<u> </u>	
Ing 1	0f f On		
Les Les Les Basis	9.486 9.586 9.686 6.788		
Side	1.988	£2 • m4	
SIDE VIEU Upper 8 Level 8 Lower 1	EU 8,486 8,756 1,688	###	Projection view Item IK2-8203.1 Project

		Item TK2-S2C
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		Item TK2-52C3.2
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Side	1.888	=		}
SIDE VIEH Upper B Level B Lower 1	9. 488 6. 845 1. 889	o bred - bred + b. 4	Projection view Item TK2-5204.1	

Projection view Item IK2	Item TK2-S2C4. 2	ection view
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95.94 in			Item TK2-5204.4
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9.698 in 95.698 in 95.698 in 95.998 in 95.90 in	00.00 00	1 Off 2 On					S	2.81	OP UII

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			Item TRZ-SZL
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Ing 1 Ing 2	Off Om	-Alth-ygg <u>-mallitime </u>			
Led Less Less Resis	6.566 6.566 6.786 6.736	22222		illianusteriettä kuuritata kuura rivatilaista kihantii Majaka seeturamisen a muut	
Side	1.866	5			
SIDE VIEW Upper 8 Level 8 Louer 1	. 758 . 758	<u> </u>	Projection view Item TK2-S3C2.1		Projecti

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IMAGE	12.81	Off On	8.486 8.586 8.686 8.788 8.788	1.888	EU 8.486 8.758 1.886
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8.88 in					Projection view Item TK2-53C3.1
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in 71.96 in Trojection view		Item TK2-S3C3.4	
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JOE	12.81 in	of f On	9.688 9.788 9.988 9.988 11.11.11	1.888 in	252 89.488 ii 1.888 iii ii 888 iii
6.66 in	, E			In	in in Projection view
23.99 in					Item TK2-5305.1
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	47.97 in	47.97 in	
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view	Item TK2-8305.2	Projection view	Item TKZ-S3C9

95.94 in		Item TK2-S3C5.4
71.96 in		Projection view
71.96 in		£':

I-SCAN IMAGE	IMAGE	1.	8.68 in	23.99 in	23.9
TOP VIEH Top 1	2.84	C			and the state of t
Ing 1 Ing 2	Ou Ou				No. 11 Julius - Typosopogo - aph gift higher ann o'Rhomadh air Ros - agus ag anns ar ser anns
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Side	1.888	E			
SIDE VIEH Upper 8	488				LOOKE NEED IN 1 MOON SOMETH SPECIAL SP
Level	8. 758 1. 888				
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Item IX2-S4C1.4

T-SCAN IND TOP VIEW TOP VIEW TOP VIEW Img 1 Img 1 Img 2 Img 2 Img 2 Img 2 Img 1 Img	T-SCAN INAGE TOP VIEW TOP VIEW TOP VIEW TOP VIEW Ing 1 0ff Ing 1 0ff Ing 2 0n Le1 8.588 Le5 8.588 Le5 8.588 Side 1.868 Side 1.868 Side 1.868	0.66 in	23.9¢ in
Level Louer	8.758 1.888	Projection view Item TK2-S4C2.1	100.00

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47.97 in

T-SCAN IMAGE	IMAGE		6.66 in 23.99 in	23.53
TOP UIEW TOP	12.81	<u>.</u> £		man and a second
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Le 1 Le 3 Le 5 Bas Is	8.488 8.588 8.588 8.788			
Side	1.888	ing as propil as (Month)		a table Magnetic
SIDE VIEW Level 8 Louer 1	国	m brand, er fannel, er kennel Annes begen bester Annes begen begen	Projection view Item IKZ-S4C3.1	Pro

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TOP MEH	된 12.81	\$22 		
1#g 1	Off On			
CD CD	80 c 60 c 70 c			
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Basis Side	9. 345 1. 989			
Side of Extended to the Side of Side o	1.888 1.888 1.888	whose or hand as hough	Projection view Item IK2-54C4.1	Proj

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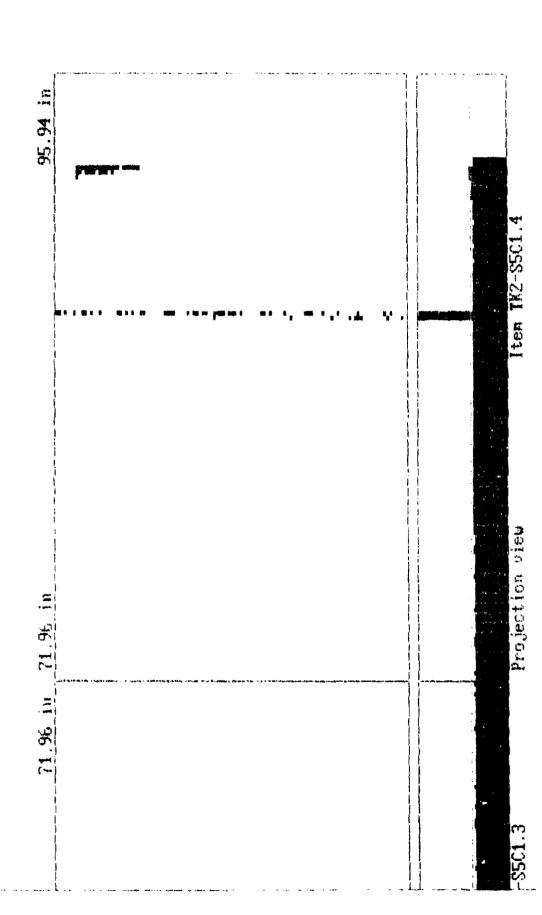
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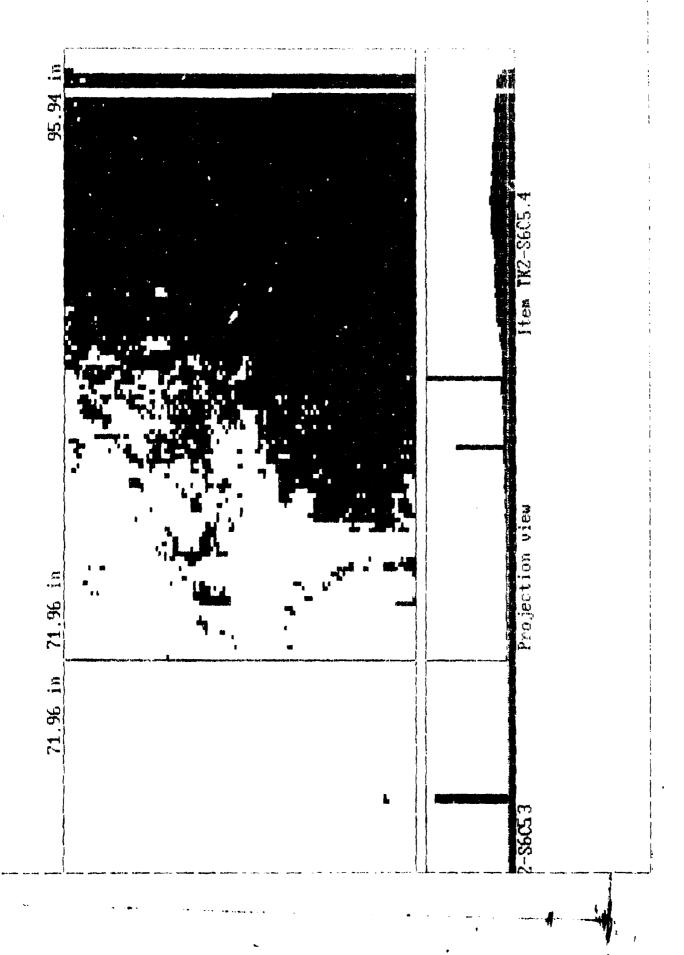
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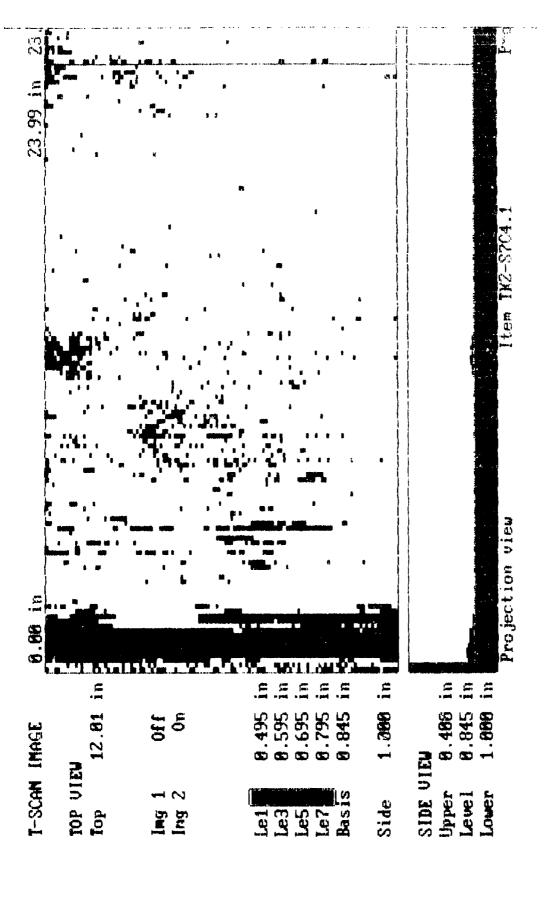
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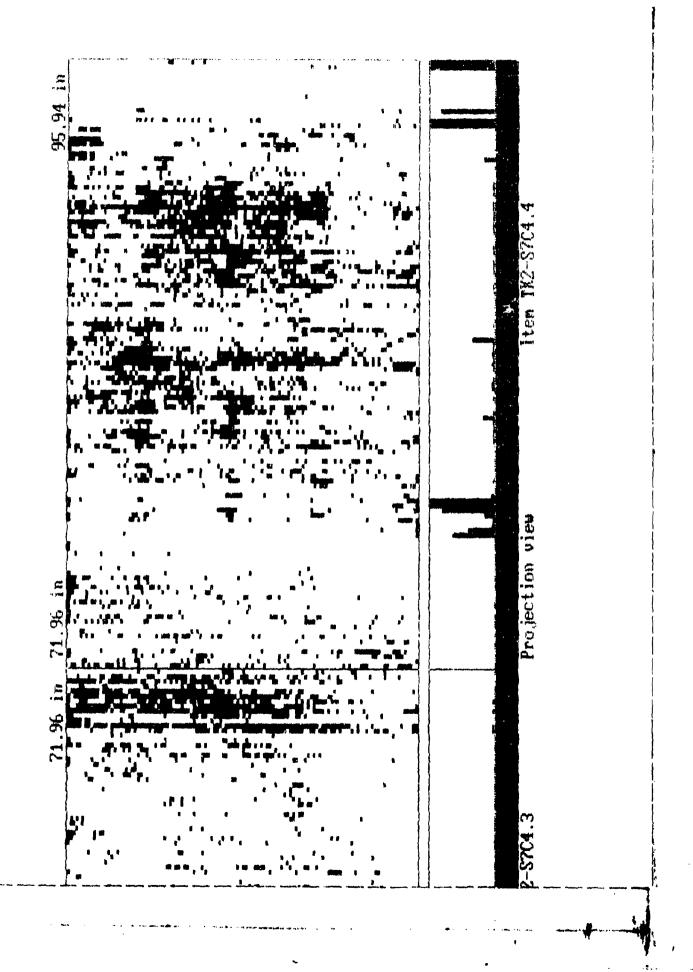
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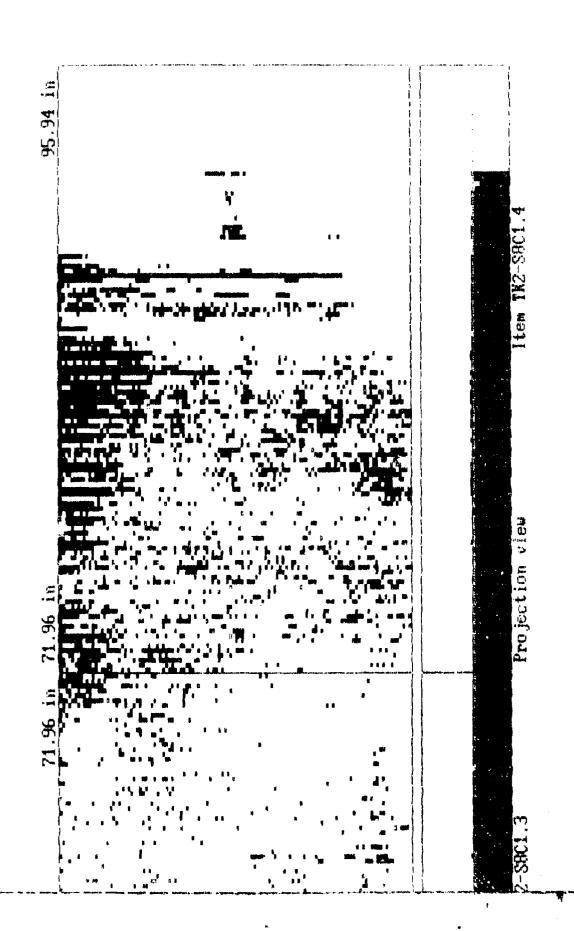
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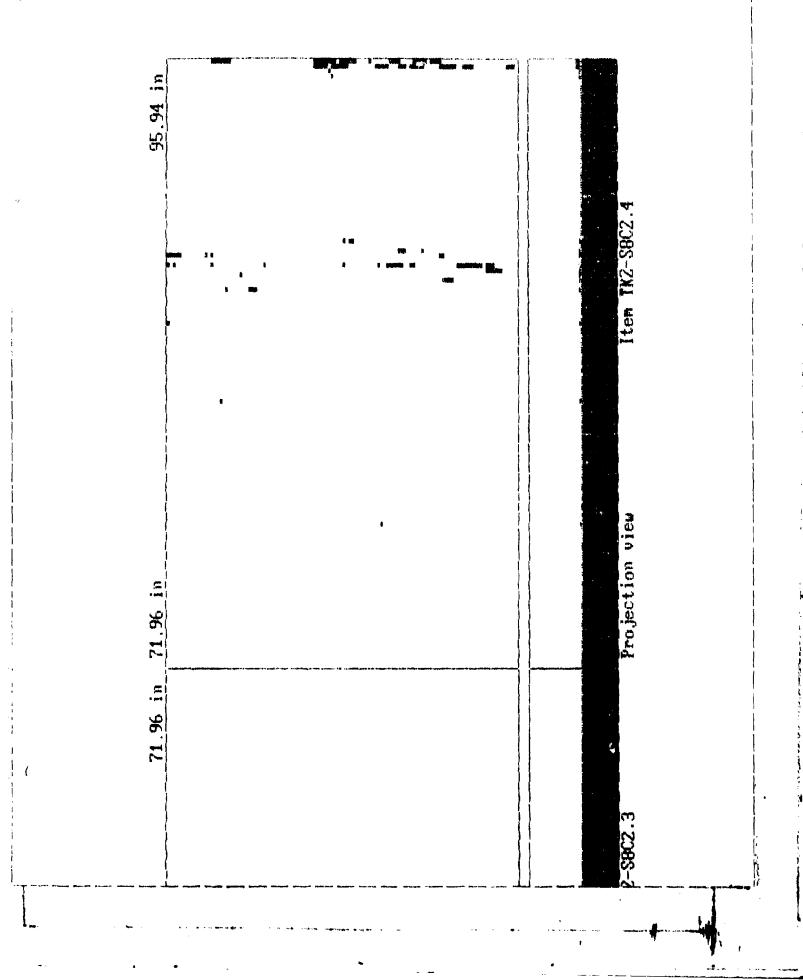
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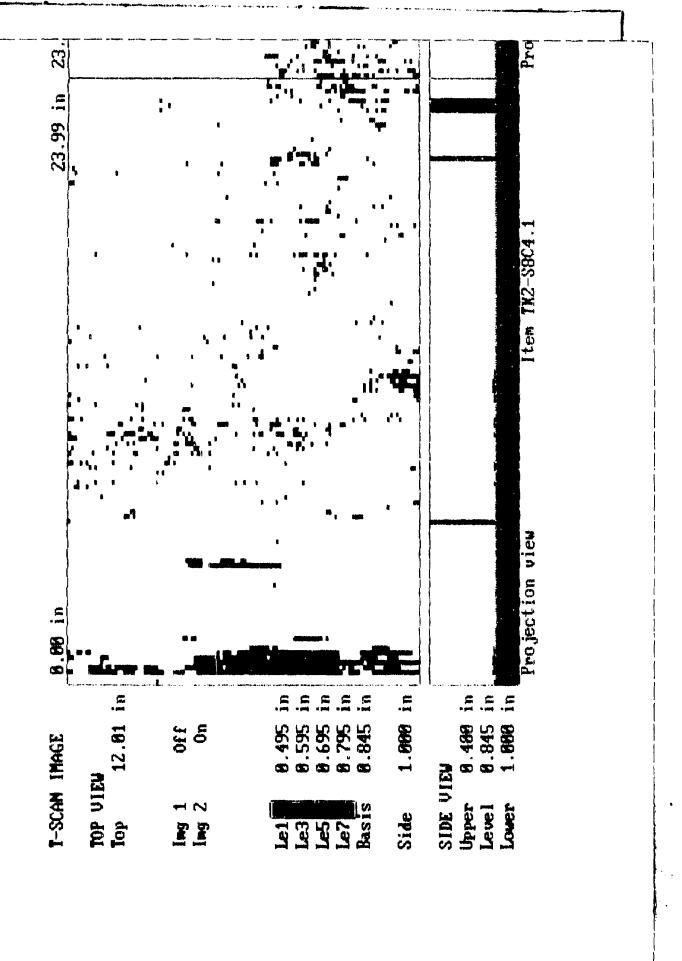
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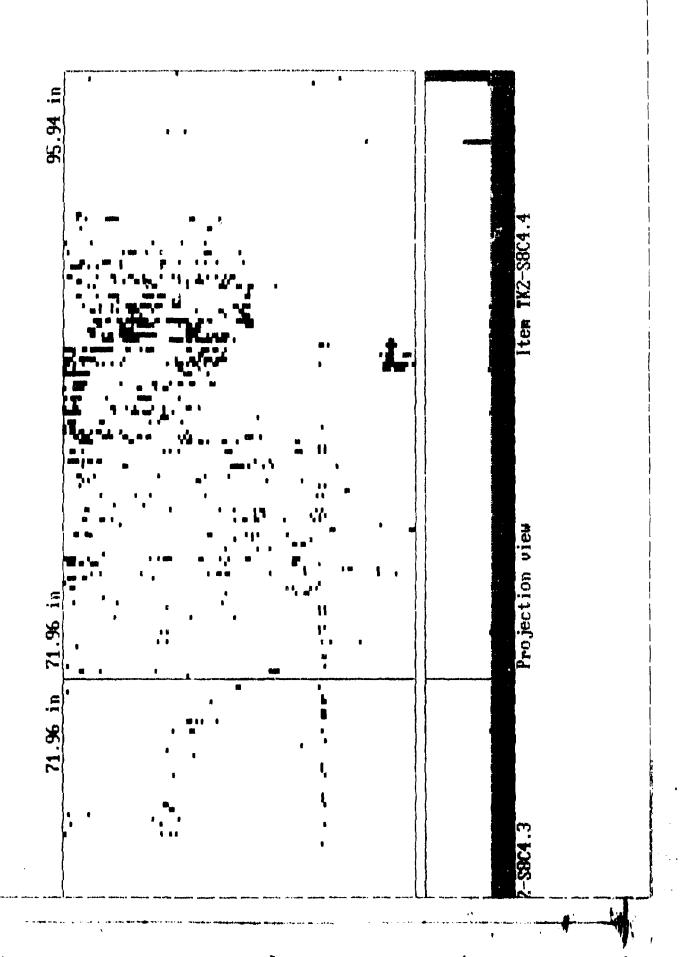
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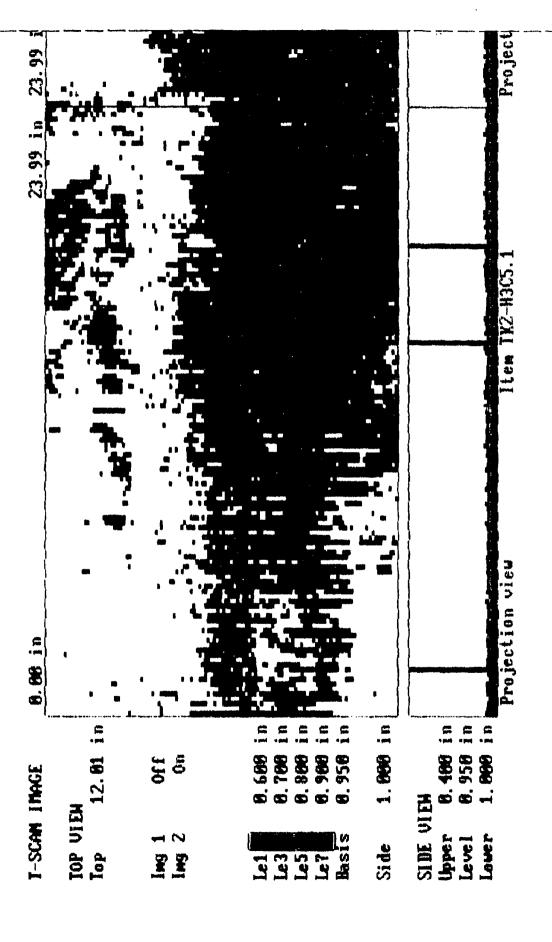
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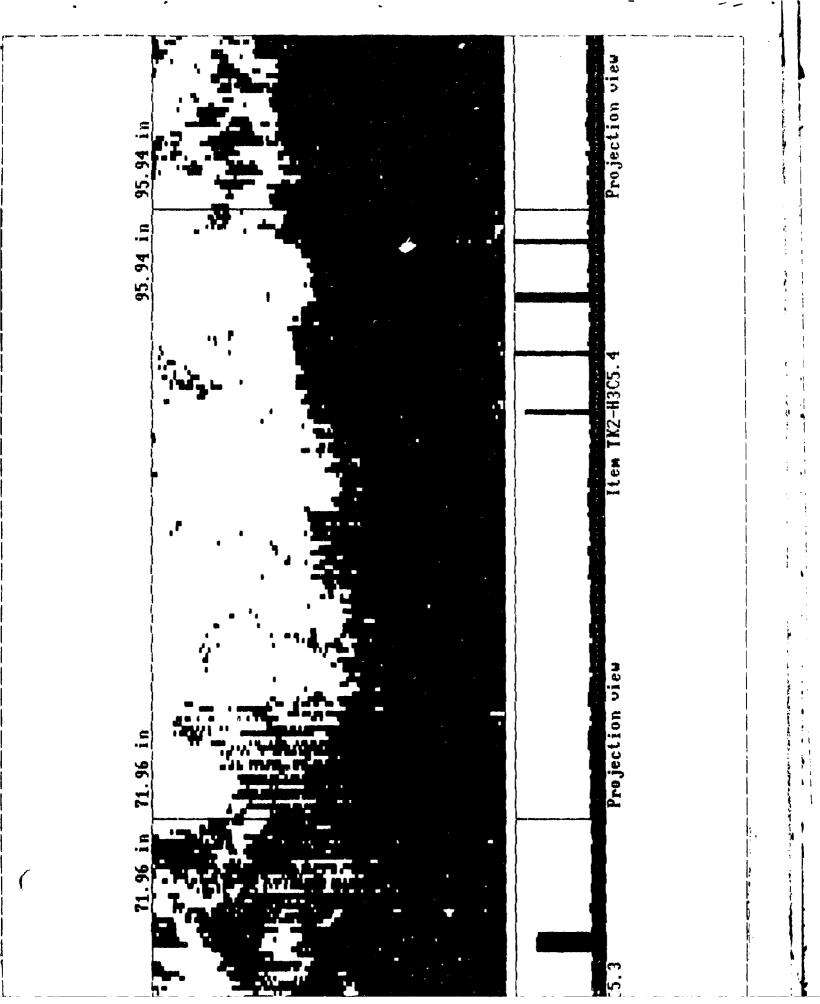
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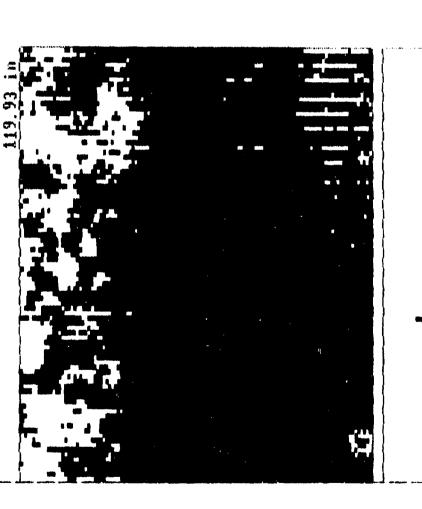
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APPENDIX 8
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دع	25/	48	0.810		0.785		0.800		19.9
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<u>165</u>	7.2	96	0.800		2775		0.790		
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163	24	48	0.805		0.785		0.795		19.9
/43	<u> </u>	72	0.805		0.785		0.795		-
163	7.2	96	0.805		0.775		0.790		-
164		24	0.885		0.765		0.860		
164		48	1		0.850	*************	0.865		19.6
164	48	72	0.880		0.850		0.860	,	
sey.	7.2	96	0.875		0.830		0860		_
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OMMENT:				 			_	<u> </u>	



					MMARY				
ILE #	IDEN FROM	TITY	DATA I	MAX mm	DATA TINCH	MIN	DATA T INCH	AVG	COMMENTS EVA-T (mm)
145		24	1.015		0.945		1.000		
145	24	48	1015		0.985		0.775		19.7
165	4/18	7	1015		0.285		0.995		
UC5	7.2	96	1.010		0.280		0.995		
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OMMENT	S								



									: <u>58</u> :
COMP. ID: PIPE DIA: REF. PT.	•	1	N.	12	CI	RCUNIF	ERENCE:		e -89
FILE	IDEN FROM		DATA 1			MIN	DATA 1	AYG mm	COMMENTS EVA-T
2261	12		0.800		0775		0.785		/9.3
5241	48	20	0.900		0.775		0.780		79.3
526/	7.2	96	0,800		0.785	·	0.775		
22C2	_0 _y4	1	0845		0.805		0.805		20.4
Saca	48 72	22	0845	· 	0.800		0.8/5 0.805		
-									
				• · · · · · · · · · · · · · · · · · · ·					
COMMENT	<u> </u>								
EXAMINER EXAMINER	Kul	Che) ky	<u> </u>	- LEVE	L: <u>7</u> L:	Œ E	MP. #:	7222



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m Th.	~	.1				77 A	V DATE.		
E DIA:	/4\	<u> </u>	. М .		CI	RCUNIF	M DATE: ERENCE:	160	(6.3)
· PI.						DATA	FILE #:		
				St	JMMARY				
ILE #	IDEN FROM	TITY	DATA 1 INCH	MAX mm	DATA TINCH	MIN	DATA T INCH	AVG	COMMENTS EVA-T (mm)
XZ_	_0_	24	0.805		0715		2782		
203	24	48	0.805		2275		0.785		19.7
عدع	478		0.805		0.775		0.785		-
عدع	72	96	2805		<u>a735</u>		0.765		
		-	-		-	 	-		
عدم		24_	a s 95		0.800		0860		
264	24	48	0.895	<u> </u>	2.855	<u> </u>	0.865		19.7
264	48	7.5	0.075	· · · · · ·	0.850		0.865	<u> </u>	-
264		96	e. 89 5_		0.845		0.865		
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		-	-		-		-		
OMMENT	 S	-l	_	l				l	_
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OMP. ID: IPE DIA: EF. PT.	Tauk	# <u>3</u> I	N.			DATA 1	CAPE #:		cc - 89
FILE	IDEN FROM	TITY TO	DATA 1	MAX mm	DATA TINCH	MIN	DATA 1	C AVG	COMMENTS EVA -T
5265	0	24	1.045		0.760		1.020		
5265	24	42	1.040		4005		1.015		19.7
Sacs	48	. 22_	. wss.		0.975		1.010		
5265	72	90	ZOZ 5		0.990		1.000		_
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PE DIA F. PT.	Tank	#13 I	N.	St	CI	RCUNIF DATA	ERENCE: TAPE #:		· 89
FILE #	IDEN FROM	TITY TO	DATA 1	MAX mm	DATA TINCH	MIN	DATA 1	AVG mla	COMMENTS EVA-T
5361	_19	24	*		*		*		
361	24	48	08-5		0.755		0.775		19,2
361	48	72	0.805		0.755		0.770		
36/	<u>72</u>	96	2.800		2745		0.776		-
362		24	0.835		0.745		0.795		
362	24	48	280		0.780		0.790		19.8
32	48	22	0805		0.775		0.790		
362	72	94	0900		e.755		0.785		
									
OMMENT:	3						/		,
*	Obstruci	tion a	rue to	8-64.17	way so	ian d	gins e	re 37.	



PE DIA: F. PT.	Tank	II	1.		RCUMFI DATA 1 DATA 1	ERENCE: TAPE #: FILE #:		<u> </u>
FILE	IDENT FROM	TO TO	DATA T	MARY DATA T INCH	MIN	DATA T	AVG mm	COMMENTS EVA-T (mm)
5543	0	24	C2795	0.725		075		
343	24	48	070	0.755		2710		19.2
343	· LB	72	0.790	 0755		0.740		
<u>53∠₹</u>	72	96	0.790	 2750		0.765		
344	6	24	0875	 0.795		0.850		
364	24	48	0.870	 0.845		080		19.6
5364	48	22	0.875	0835		080		
5564	72	76	0.885	0.840		0.855		
				 -				_
COMMENT	<u> </u> S	.	_	 	.]	_	.	



MP. ID: PE DIA: F. PT.		I	N.			DATA	TAPE #:		- 87
FILE	IDEN	TTY TO	DATA TINCH	MAX mm	DATA TINCH	MIN	DATA T	'AVG	COMMENTS EVA-T (mm)
<u> </u>	0	24			0.935		0995		
53C5 53C5	<u> </u>	<i>√8</i> 72	1.015		0.985		0.995		19.7
5365	72	96			0.970		0.985		
			-		-				-
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F. PT.		^	.il •			DATA .	rape #:		
				SU	MMARY				
FILE #	IDENT FROM	TO TO	DATA TINCH	MAX mm	DATA 1 INCH	MIN	DATA TINCH	AVG mm	COMMENTS EVA-T
SHCI	_/9	24	0.825		0770		0805		
عبدل	24_	48	0.835		0.790		0805		20.1
3461	48	22	0825		0800		0.805		
HCI	22	94_	0825		2.755		0.805		
54C2	_0_	24	0815		0.770		0.795		
स्पट	24	48	0.815		0.720		0.800		20.1
3465	<u> 48 </u>	_22_	0.8/5		0.790		0.800		
	22	-9%_	0.8/5		0.755		2800		
							-		
COMMENT	Š	l			l	I———	. l <u></u>	1	1



SITE:	TANK	43		-,	CI	EXA RCUMF DATA	M DATE: ERENCE: TAPE #:	/6 oct	:
FILE #	IDEN FROM	TITY	DATA T	MAX mm	DATA T	MIN	DATA I	r AVG	COMMENTS EVA-T (mm)
546.2	0_	24	0.800		0.740		0775		
5453	<u> </u>	48	2800		2.775		0.785		19.7
SUCZ	<u>48</u>	7.2	0.800		0.780		0.785		
5463	72	94	0800		0.775		0.785		
zHC H		24	0.830		0.8/5		0.850		
5464	24	48	0.875	 	0.830		0.850		12.4
स्परम	48	72	0.870		0.835	\ 	0.850		-
5404	_72_	96			_ * _		*		
·		-	_		_				-
			-				-		
		-	_	 -	_		-		
COMMENTS	-		_	!		1			_
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MP. ID:	TANK	#2			cı	EXAI RCUMFI DATA	M DATE: ERENCE: TAPE #:	16-oct	:
FILE #	IDEN	TITY TO	DATA I		MMARY DATA T INCH	MIN	DATA I	AVG	COMMENTS EVA-T (um)
<u> </u>	_0		1.000		2.965		0.970		10.0
54C5	- 48 - 48	<u> 48</u> 	1,000		0.970		0.975		19.8
SHC5	7.2	96			0.960		0.970		
									
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COMMENT	! S	.]			_	! <u></u>	_	}	
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		an data RMA		JOB #						: <u>67</u> :
I	COMP. ID: PIPE DIA: REF. PT.	TANK	#.3 I	· .			RCUMFI DATA 1	I DATE: RENCE: TAPE #: FILE #:	17 00	26.89
					SUN	MARY				
	FILE	IDENT FROM	TO TO	DATA I	MAX mm	DATA 1 INCH	MIN	DATA I INCH	AVG mm	COMMENTS EVA-T (ww)
	{			1						

	FROM	TO	INCH	mm.	INCH		INCH	mn 	(mm)
SECI.	_/9	24	0.805		0.785		0.790		
SSCI	24	48	0.810		<u>ര.780</u>		0.790		19.8
SSCI	48	72	0.815		0.785		0.795	·	
<u>55CI</u>	72	26	0.8/5		0.765		0.795		
5542		_بر_	0.805		0.755		0.785		
عدد	_بيد	48	0.805		0.780		0790		19.8
SSC	48	72	0.805		0.760		0.790		
عدد	7.5	94	0.805		0.755		0785		
			.						
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OMP. ID: IPE DIA: EF. PT.	Tank	# 2 I	N.	SU	CI	RCUMF! DATA	ERENCE:		£ 81
FILE	IDEN FROM	TITY ŢO	DATA T	MAX	DATA TINCH	MIN	DATA T	AVG	COMMENTS EVA-T (mm)
5563		24	0.800		0.735		0.780		
55C3_	٧-	49	0.795		0.770		0.780		19.6
5563	48	72	0.795		0.750		0775		-
5563	72	96	0.795		מררם		0775		-
5564		24	0.670		0.780	*	0.850		
SSCY		48	0.580		0.835		0.850		19.6
55C4	48	72	0.875		0.805		0855		
5564	72	96	0.880		0.840		0.855		
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COMMENT	S		.		_		.	l	_
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r. PI.					MARY	DATA :	TAPE #: FILE #:		£ 89
FILE	IDEN FROM		DATA I	MAX mm	DATA TINCH	MIN	DATA T	AVG mm	COMMENTS EVA-T
5525	_0_	24	1.025		0.965		1.005		
5565	24	1	1.025		1.000		1.005		19.8
5565	48	72			0975		1.000		-
525	72	26	1.015		0.985		1.000		_
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SITE: _ OMP. ID: IPE DIA: EF. PT.	_Ta				C1	EXAL RCUMF	M DATE: ERENCE: TAPE #:	17 06	:
FILE	IDEN FROM	TITY TO	DATA 1	MAX mm	DATA TINCH	MIN	DATA 1	AVG mm	COMMENTS EVA-T (mm)
SGCI	/9	21	0.810		0.785		0.795		
SGCI	74	48	0.810		0755		0.790		19.2
SECI	48	12	0.805		0780		0.790		-
SGCI	_ <i>7</i> 2	96	0.800		0.730		0785		
<u> جر</u>		24	0.805		0745		0.775		
جددع	کوت	48	0.800		0.775		0.780		19.7
5602	48	22	0.795		0.775		0.780		
SGCO	_22	54	0.775		0.745	 	a725		
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COMMENT	! S	.	_	l		l			

LEVEL: ____ EMP. #:

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MP. ID: PE DIA: F. PT.		I	ч.			RCUMF: DATA	ERENCE:		r-89
FILE #	IDEN FROM	TITY	DATA T	MAX mm	DATA TINCH	MIN mm	DATA I	AVG mm	COMMENTS EVA-T (mm)
663	0	24	0.795		0.630		0.745		
665	24	48	0.790		0.760		0.770		19.3
663	48	72_	0.790		صاده		0.770		_
× C3	72	96	0.780		0.755		0770		_
5664	0	يون.	0.880		0.815		0.860		
5664	24		0.880	 	0890	 	0.800		19.2
44	48	72	0.875		0.840		080	· .	
664	_72	96_	0.860		2.835		0.860		
			-						
OMMENT: → O te	24"-	E.D. Con	necti	n no		rmec			tineity exhibt



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REF. PT.						DUIU	INIL TI		
FILE #	IDENT FROM		DATA TINCH	MAX mm	DATA 1 INCH	MIN	DATA I INCH	AVG	COMMENTS EVA-T (mm)
	<u> </u>				0.960		1.010		19.8
5665 5665	· 40	72	680		<u> </u>		1.010		79.8
SACS	7.2	26	1.025		0.985		0.995		
							_		
COMMENT	<u> </u> S		_	l				.	
EXAMINER	: 7/2	10/	/a/_	Kni	LEVE	L: 7	111_ 12.22 F	MP. #:	7222
EXAMINER ITL REVI	:			LEVEL	· LEVE	L:	F	MP. #:	:



OMP. ID:	RMA Touk	# 3 I			cr	EXAI RCUNIF	M DATE: ERENCE: FAPE #:	18 00	:
FILE	IDEN.		DATA T	MAX	DATA T				COMMENTS
#	FROM	10	INCH	mm 	INCH	mm ———	INCH		(mm)
S 7C1	_/9	24	0.795		0.770		0.780		
בזכו	24	-549	0.795		0.735	,	0.780		18.7
SICI	40	22	0.795		0770		0.780		
حكدا	_ Z \	-56-	0790		0.720	······································	0.775		
57 <i>C</i> 2		1.1	0.795		0.760		0746		
5762	24	48	1		0.760		0.765		19.3
5702	48	7.2			0.760		0.765		
5702	7.2	96	0.780		0.735		0.765		
COMMENT	<u> </u> s		_	l	_		_		
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MP. ID: PE DIA: F. PT.	Tank	- - 4 3 I	N.	·	CI	RCUMF: DATA '	ERENCE:		دد ۱۹
FILE	IDENT	TITY TO	DATA T		DATA TINCH	MIN	DATA T	AVG	COMMENTS
5763	<u> </u>	_24	0.800		0.725		0.780		(mm)
5763	24	48	0.800		0.775		0.780	-	19.7
5763	100	72	0.800		0.775		0.780		-
5763	72	96	0.795		0.770		0.780	···	
57C4_	0	24	0.875		0.790		0855		
5764	24	48	0.875		0.850		080		19.4
5764	48	7.2	0.875		0.840		2860		
5 7८4	72	96	0.880		0845		ට.පීරෙ		
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COMMENT	S S	.]	_	.	l	.	_!	l	



OMP. ID: IPE DIA: EF. PT.	Touk	#3 I	N.						69
				SU	MARY	DATA	FILE #:		
FILE #	IDENT FROM		DATA TINCH	MAX mm	DATA T INCH	MIN	DATA T INCH		COMMENTS EVA-T (mm)
5765	v	24	1005		0.965		0.990		
\$7 C5	24	48	1.005		0.985		0.990		19.8
5765	48	_22	1005		0.990	<u> </u>	0.990		
SICS	7.2	56	1.000		0.980		0.985		
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MP. ID: IPE DIA: EF. PT.	Tank #	<u></u>	N.		сі	RCUMF: DATA '	M DATE: ERENCE: TAPE #: FILE #:		P8 - 3
				SU	MMARY				
FILE	IDEN FROM	TITY TO	DATA TINCH	MAX mm	DATA 1 INCH	mm mm	DATA I	AVG mm	COMMENTS EVA-T (mm)
5841		٧حـــ	2790		0.750		0770		
584	24	48	0795		0.750		0.775		19.1
SPCI	40	72	2795		2255_		2775		-
Sec	_72	5%	0.770		2146		0.775		
58LJ_	0	٠	0.800		0690		0.770		-
SA CO	24	48	0800		0.760		0.780		19.3
saca_	119	22	0.800		0.765		0.780		·
SPCD	7.2	26	0.795		0.750		0.780	 	
		-	-						<u> </u>
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COMMENT	s							<u> </u>	
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MP. ID:	TANK		· N			EXA	M DATE:	12 00	c - 89
F. PT.		¹	.17 •			DATA	TAPE #:		
						DATA	FILE #:		
				S	MMARY				
FILE	IDENT		DATA 1	1	DATA T				COMMENTS
#	FROM	TO	INCH	mn.	INCH	<u>1356</u>	INCH	mm	(mm)
5843_		24	0.8/5		0.740		0.805		
1863	<u> </u>	112	2.820		0.790		0.805		20.1
58C.3	48	72	0815		2.790		0805		
SBC3	_73_	_26_	0.815		0.790		0.800		
		 	_	ļ 			<u> </u>		-
584	0	24	2885	ļ	0.830	 	0.865		-
5864	24	48_	0.885		0.855		0.865		19.7
sec4	48	7.2	0890		2860		0.870		
5864	72	76	0.885		0.855		0.870		_
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PE DIA: F. PT.	<u></u>		N.	SI	CI	RCUMF)	ERENCE: TAPE #:		89
ILE	IDEN FROM	TITY TO	DATA 1		DATA 1	MIN	DATA I	AVG mm	COMMENTS EVA-T
ges	0	24	1035		0.570		1.010		
845	24	48	1040		1.00		1.010		19.7
8 65_	YR	7.2	1.035		0.995		1.010		<u> </u>
865	72_	76	_دواه_	} 	0.775		1.010		
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IDEN FROM	TITY	DATA TINCH			MIN	DATA 1	AVG mm	COMMENTS EVA-T (mm)
0	24	1.010		0.745		0.990		
24	48	1.010		0.985		0.790		n/A
48	72	1.020		0.985		1.000		
72	96	1015		0.985		1.000		
26_	120	1.020		0.795		1.005		
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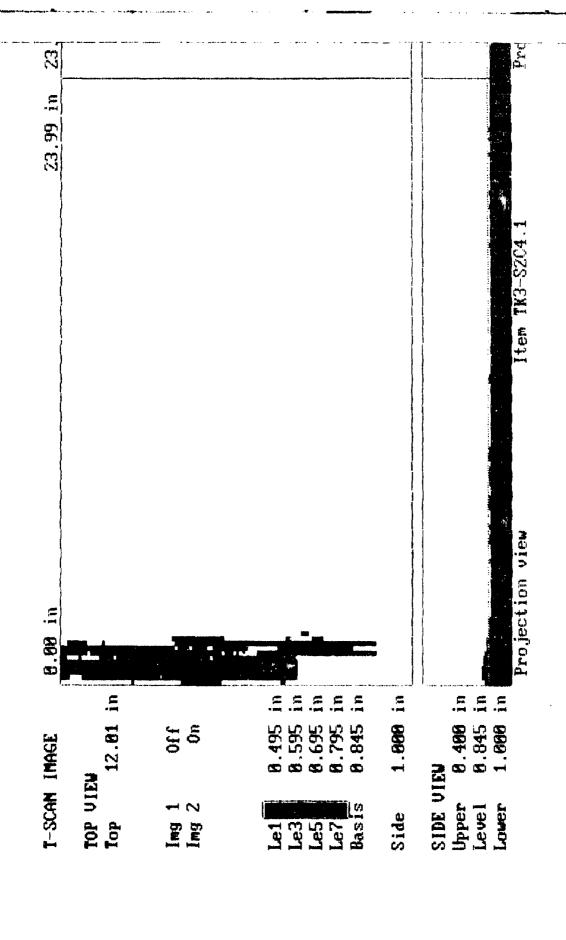
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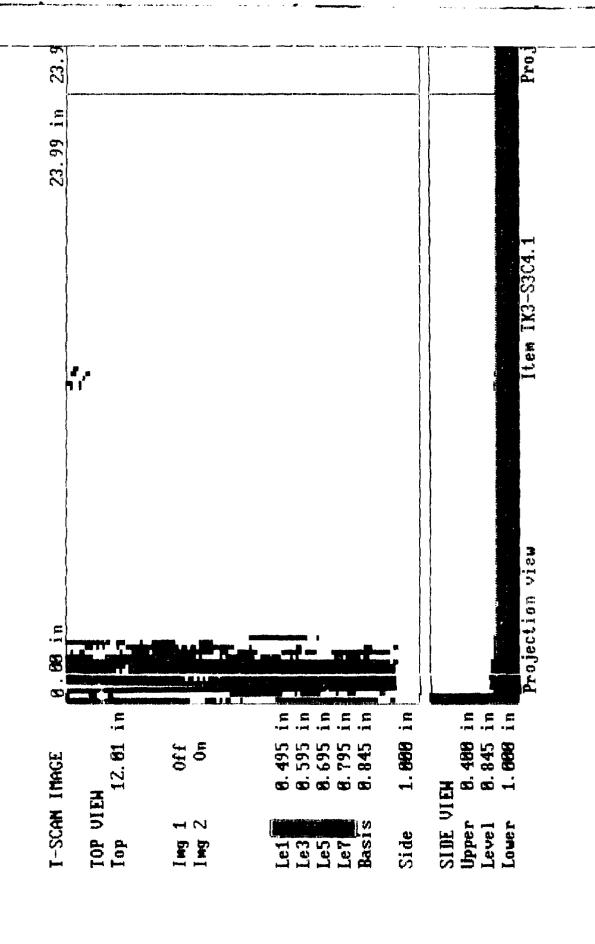
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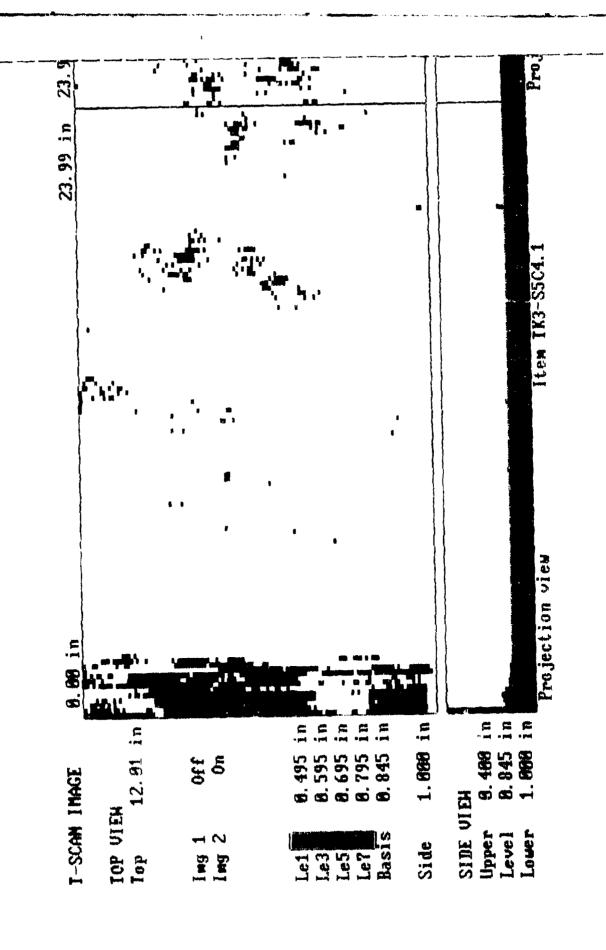
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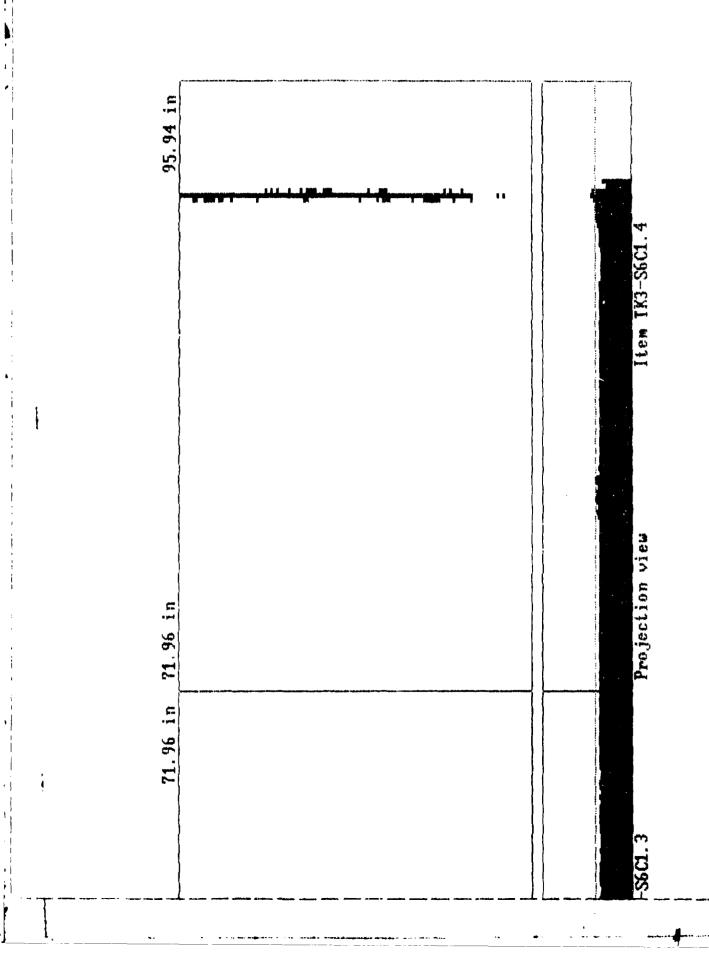
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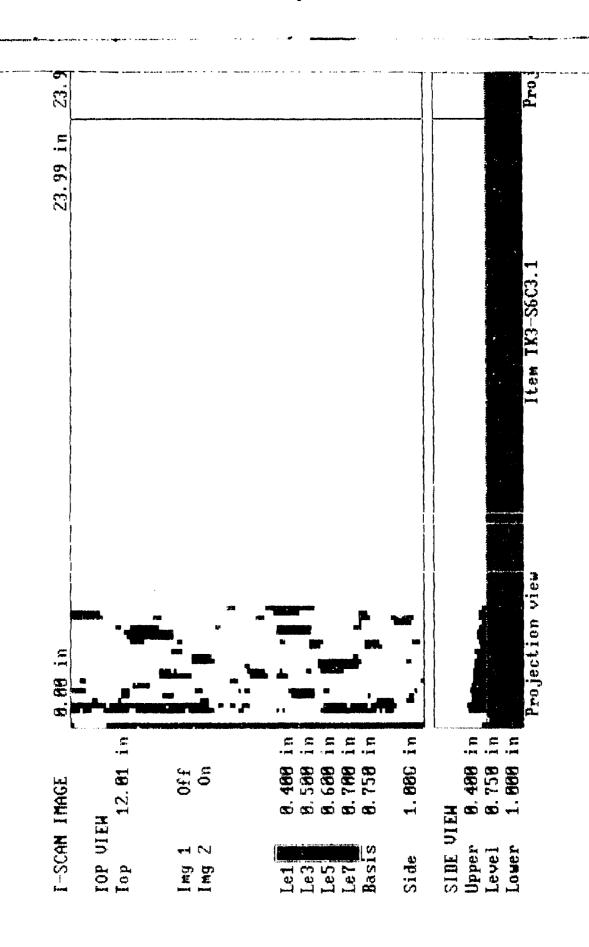
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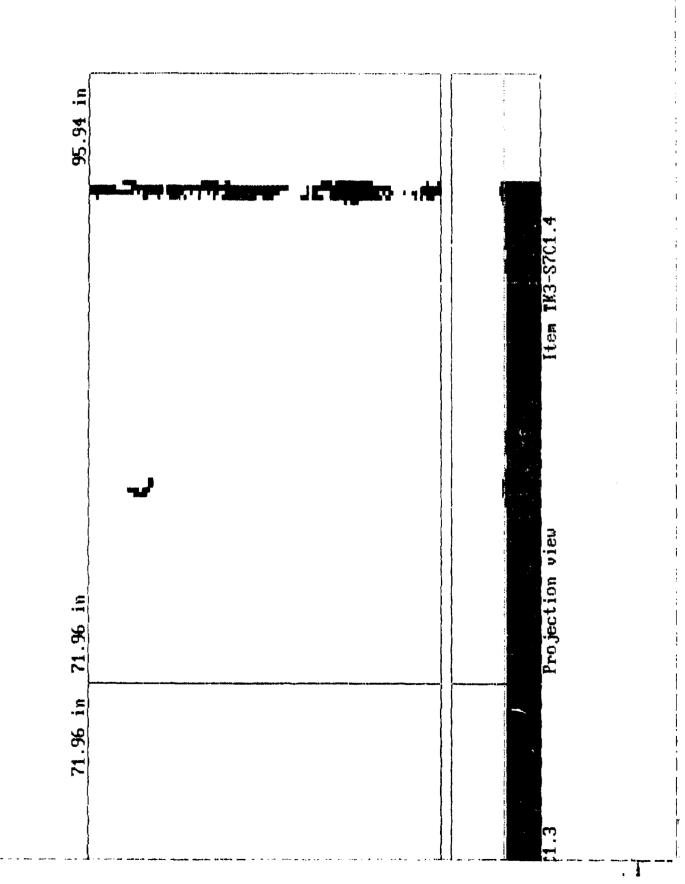
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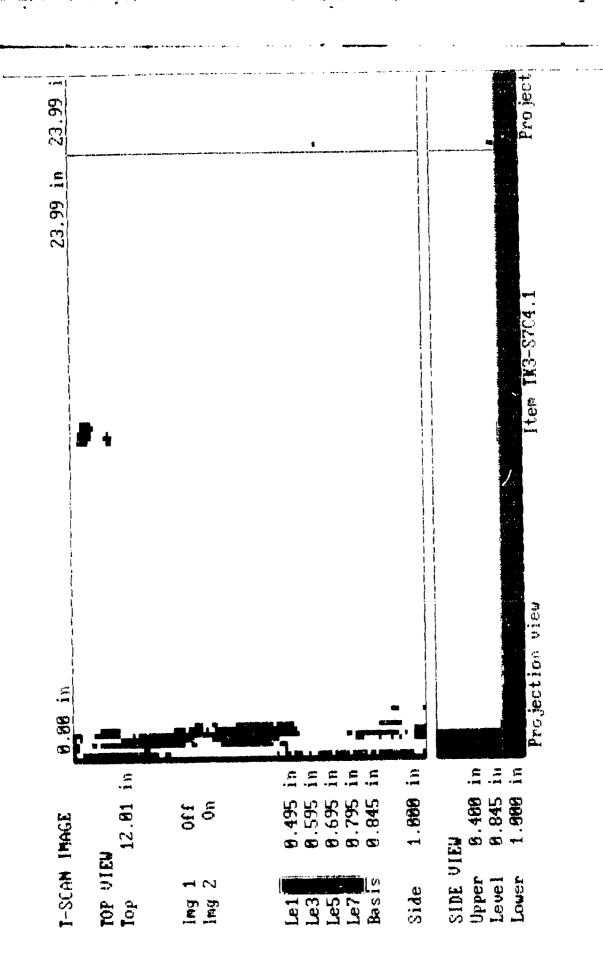
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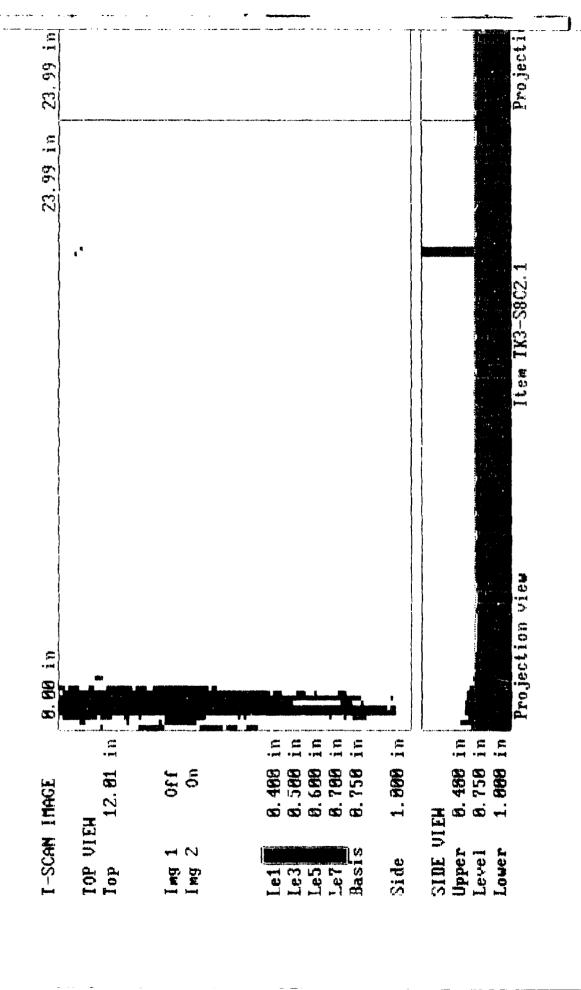
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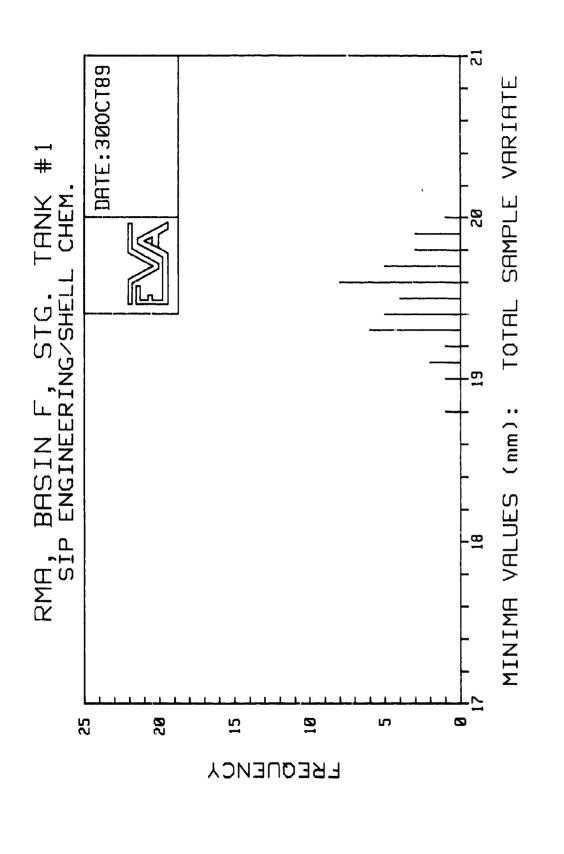
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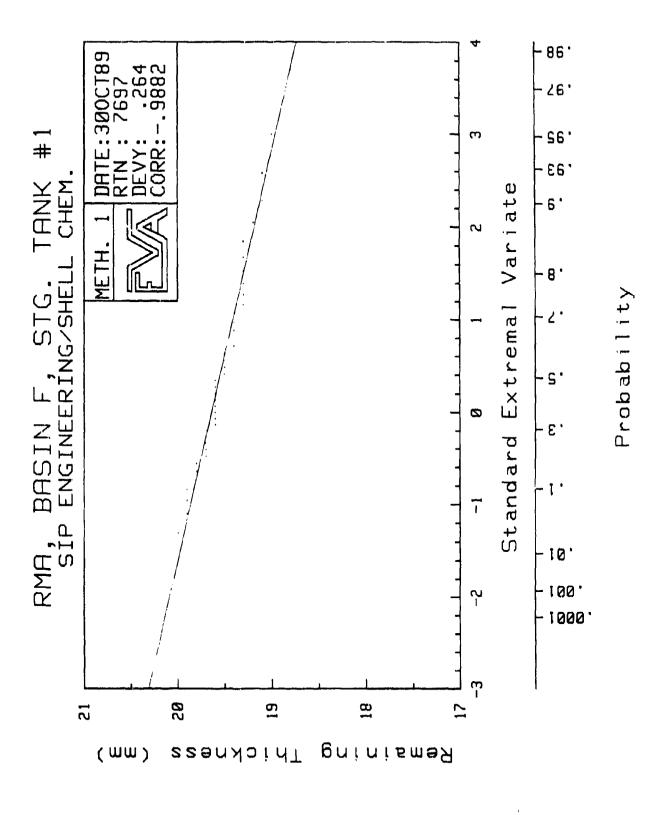
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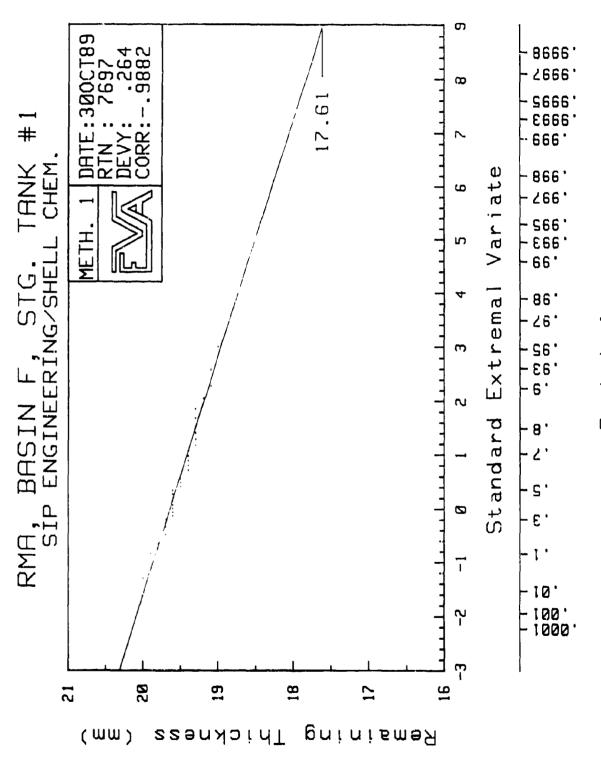
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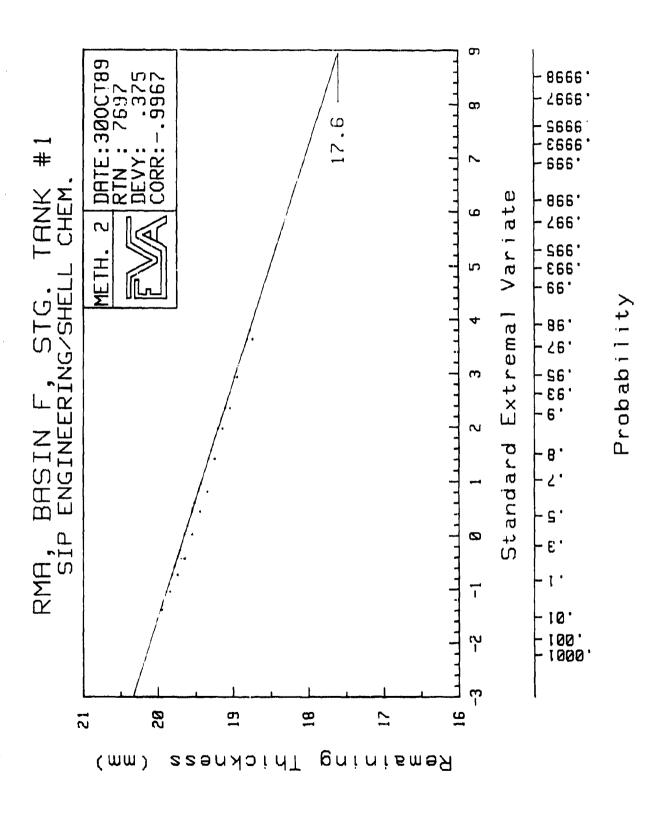
APPENDIX 4
EVA Plots and Tables, All Tanks



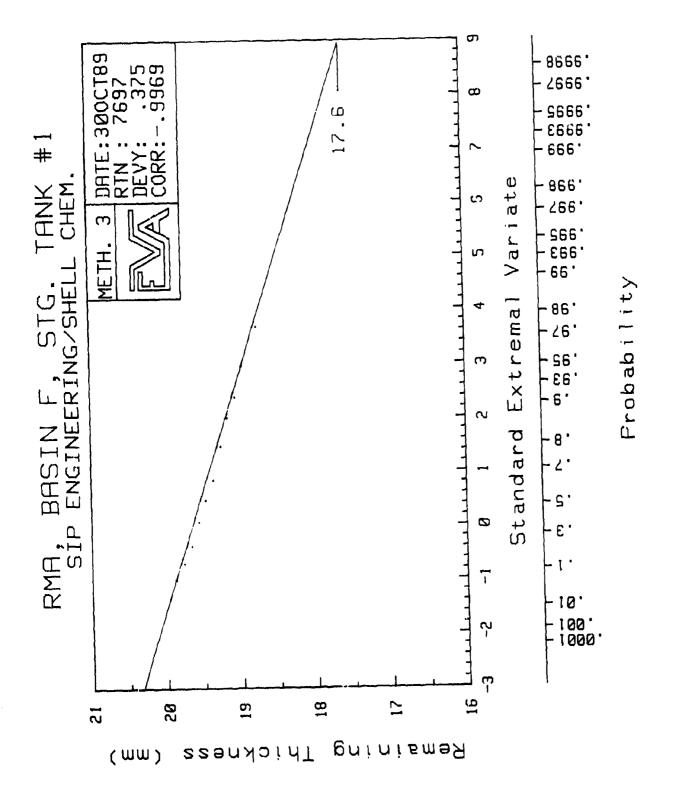


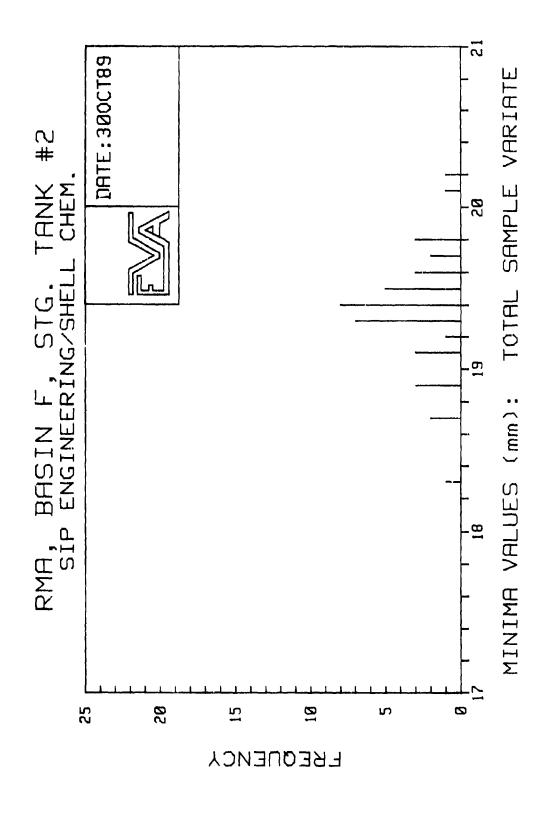


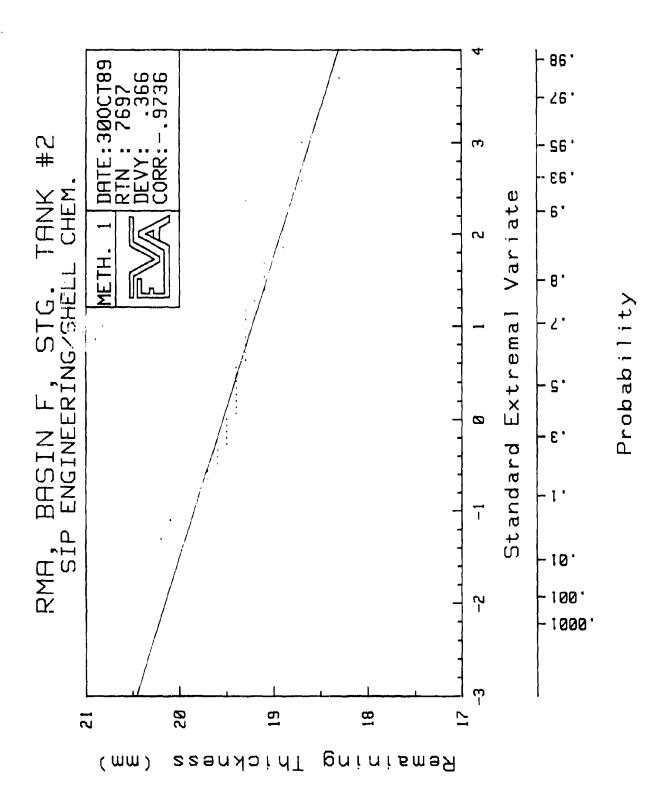
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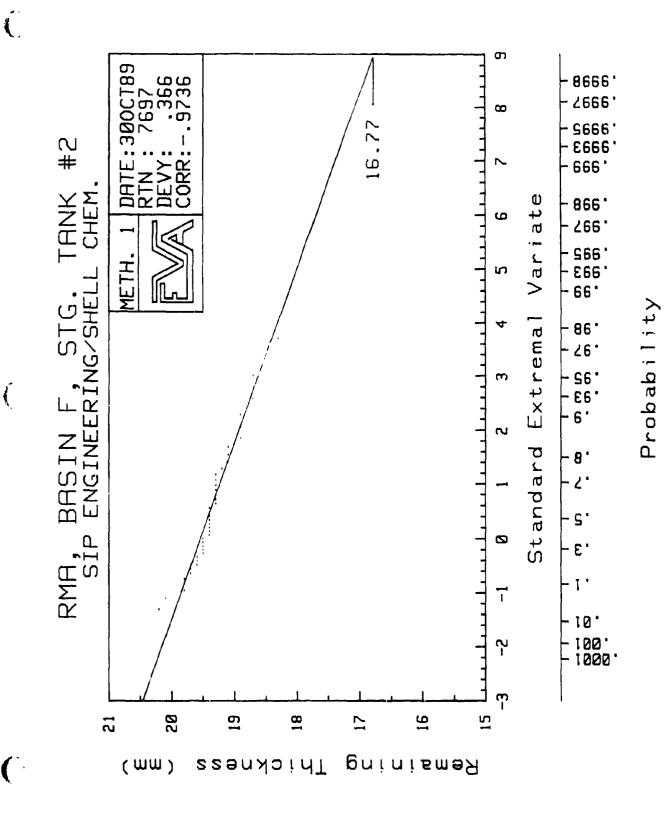


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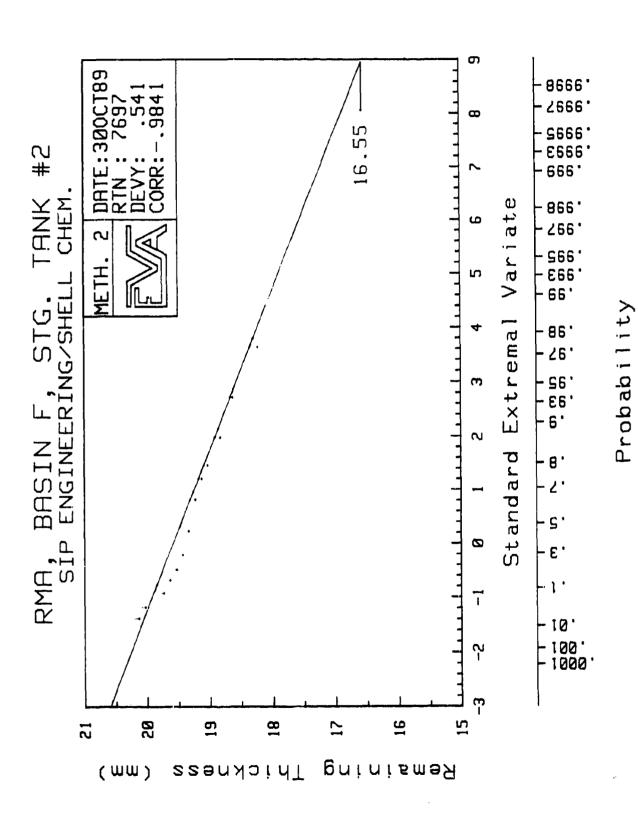


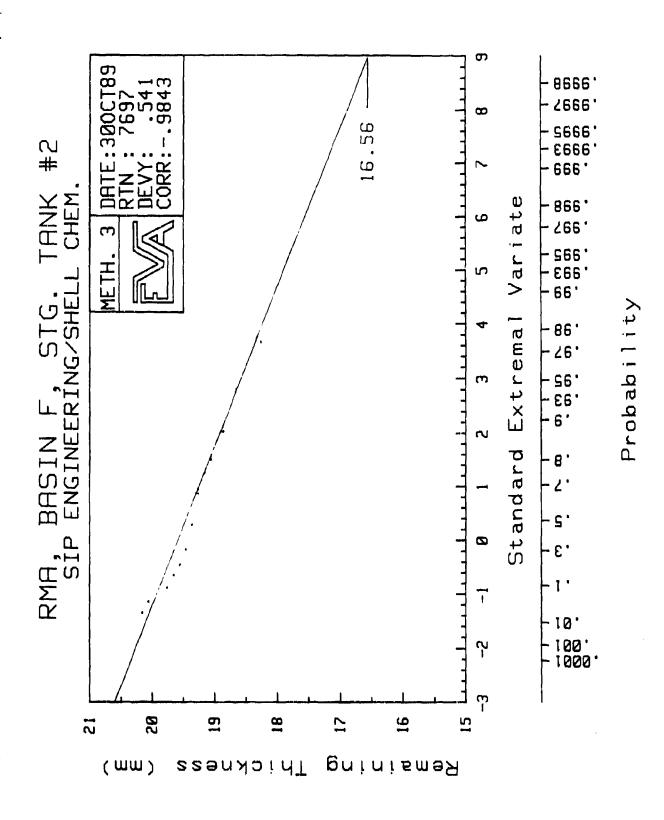


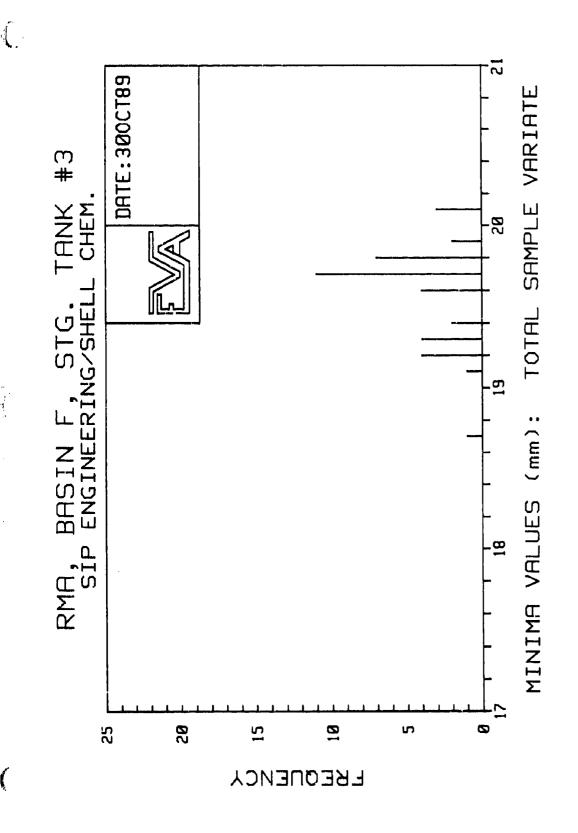


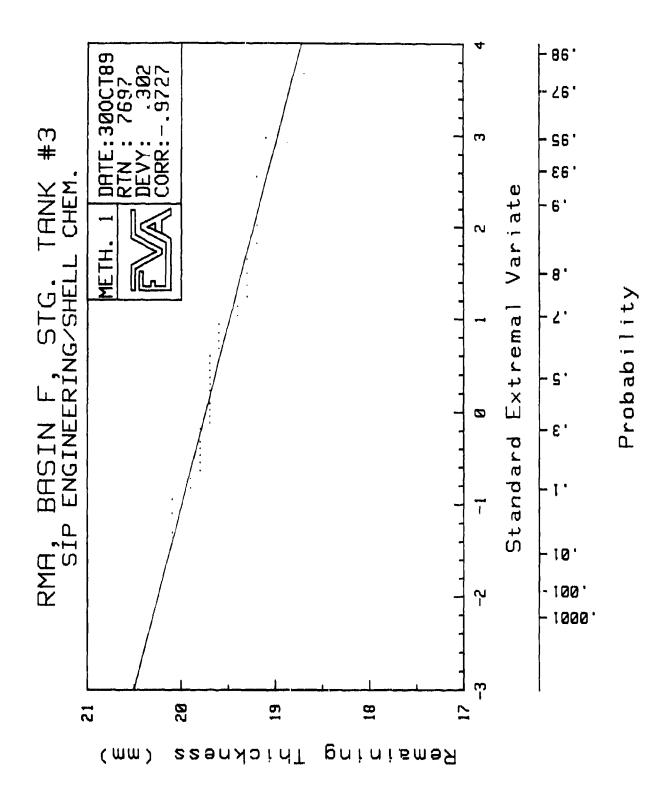
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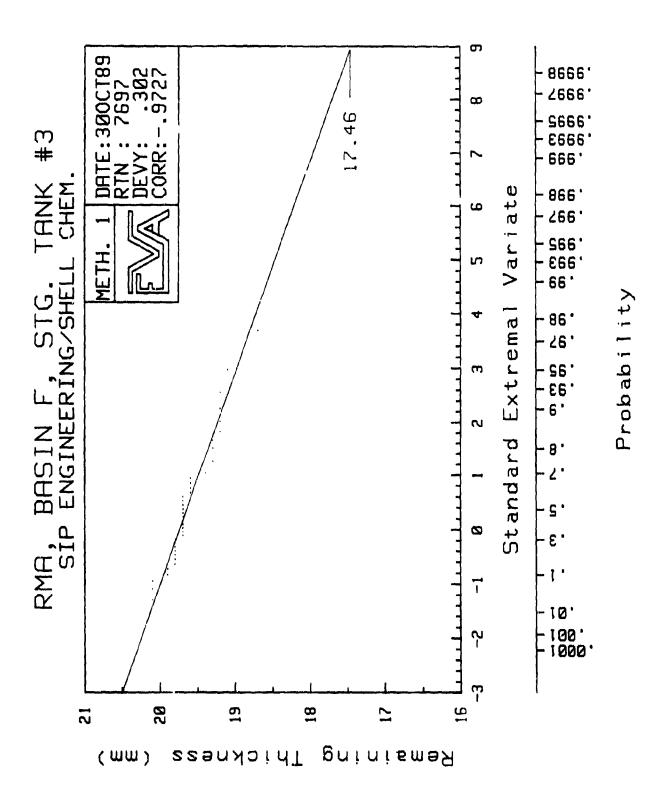
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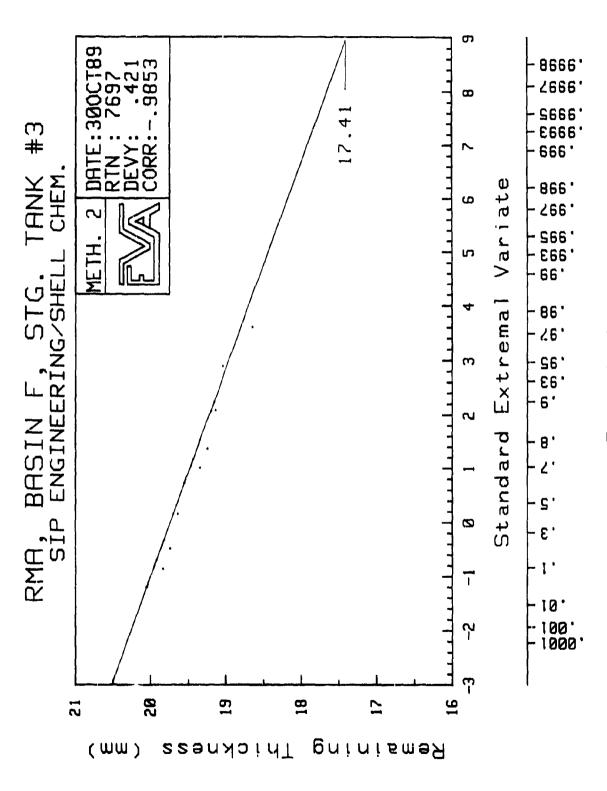






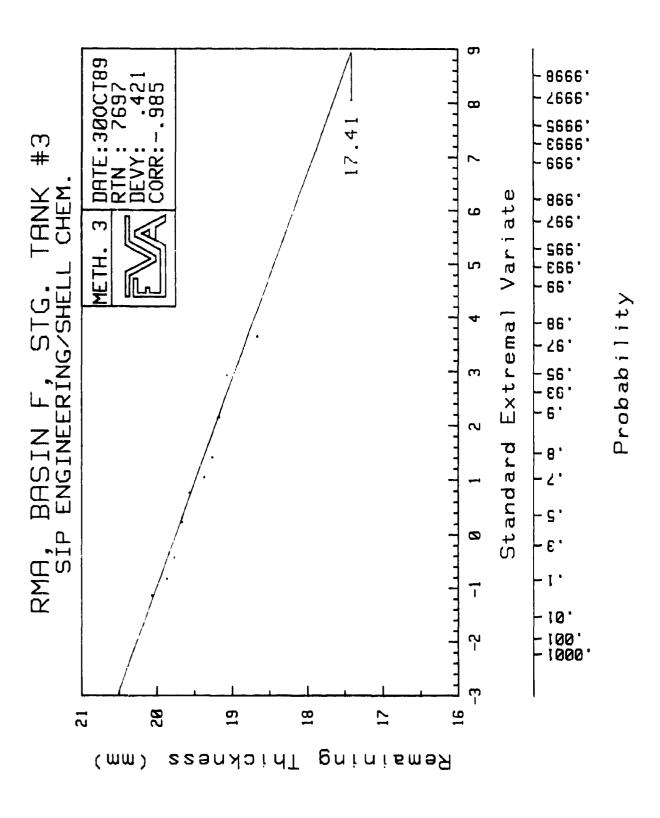


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APPENDIX 5: RADIOGRAPHIC FILM REPRODUCTIONS AND RESULTS

Each 1.5" diameter valve V-1 through V-8 was subjected to two radiographic examinations. Exposures were taken vertically (0 Degree) and horizontally (90 Degrees) to detect wall loss and build-up of material. Minimum thicknesses for each valve were determined by means of a comparator. Thickness measurements by radiographic methods are considered to be accurate to within ± 0.020 ". The results of the radiographic film interpretation are summarized below:

TANK NUMBER	YALVE NUMBER	MINIMUM THICKNESS	COMMENT
1	V-1	0.540 "	
	V-2	0.585 "	
	V-8	0.535 "	
	V-4	0.585 "	Build-up
	V-5	0.547 "	Screw inside
	V-6	0.530 "	Build-up
	V-7	0.530 "	•
	V-8	0.580 "	
2	V-1	0.580 *	
	V-2	0.530 "	
	V-3	0.580 "	
	V-4	0.530 "	
	V-5	0.530 *	Build-up
	V-6	0.540 "	•
	V -7	0.535 "	Corrosion
	V-8	0.580 "	Corrosion
8	V-1	0.525 "	
	V-2	0.580 "	
	V-3	0.530 "	
	V·4	0.535 "	Build-up
	V-5	0.580 "	•
	V-6	0.540 "	Build-up
	V-7	0.580 "	•
	V-8	0.580 "	Build-up

The radiographic examination was conducted by MQS Inspection, Inc for DNV Industrial Services. DNV personnel supervised the inspections and assisted the MQS radiographer in obtaining exposures. The original MQS report is included for additional documentation.

The Radiographic Reproductions

All radiographs obtained during the inspections are reproduced and labelled. However, it is important to note that while every effort was made to retain the film detail, slight variations of film density resulted in occasional unsharpness in the reproduced prints. Additionally, it was not possible to reproduce the lead letters of the film identification without bleaching the valve image; hence, the identification is overlayed. Each page of reproductions includes the vertical and horizontal exposure for the valve.

RADIOGRAPHIC INSPECTION REPORT

MQS Inspection, Inc.

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RADIOGRAPHIC INSPECTION REPORT

MQS Inspection, Inc.

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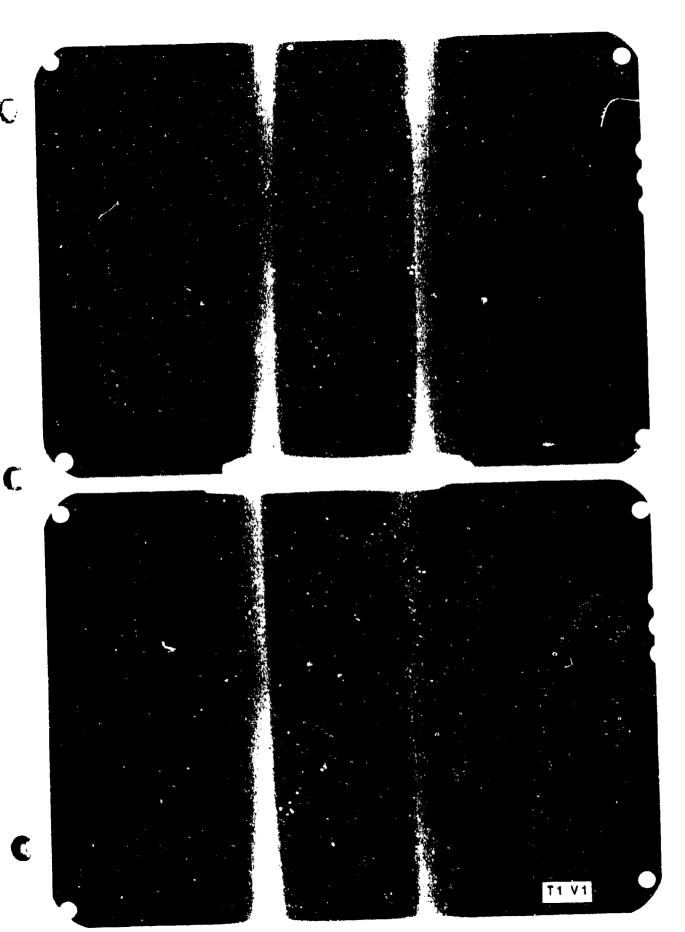
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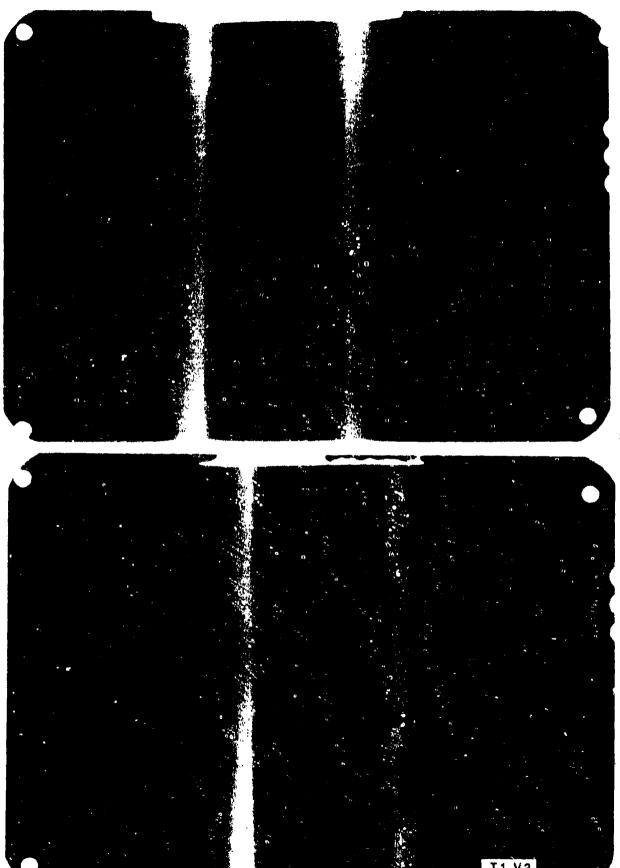
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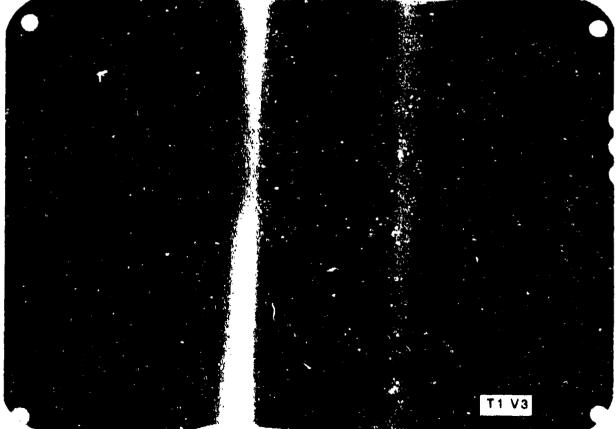
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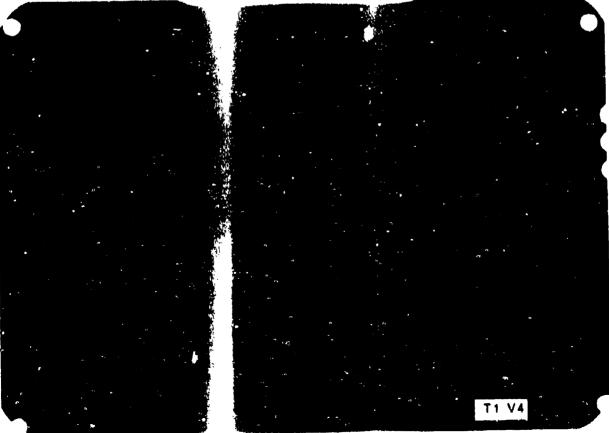


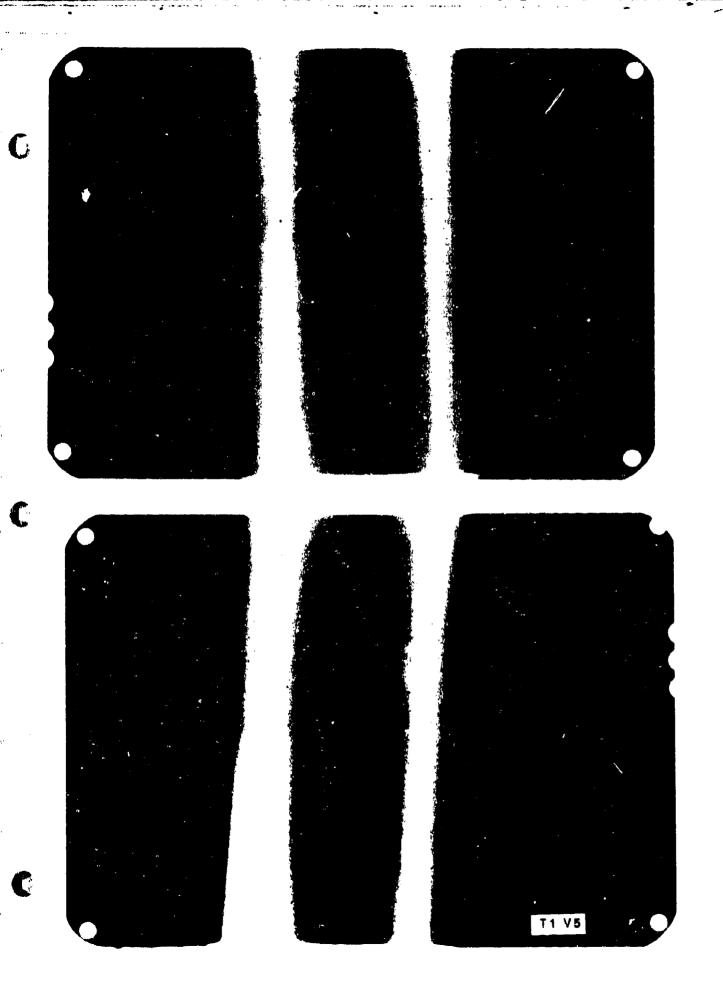


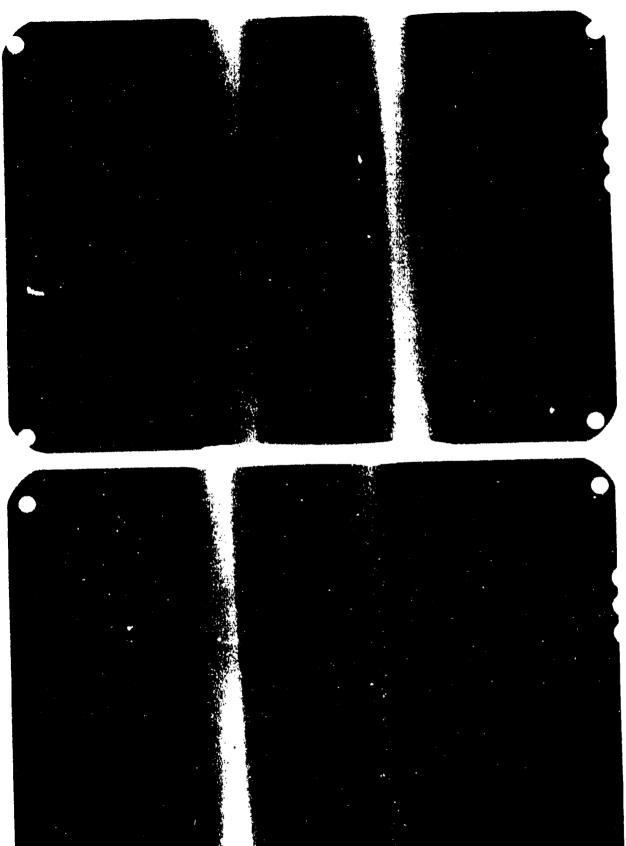








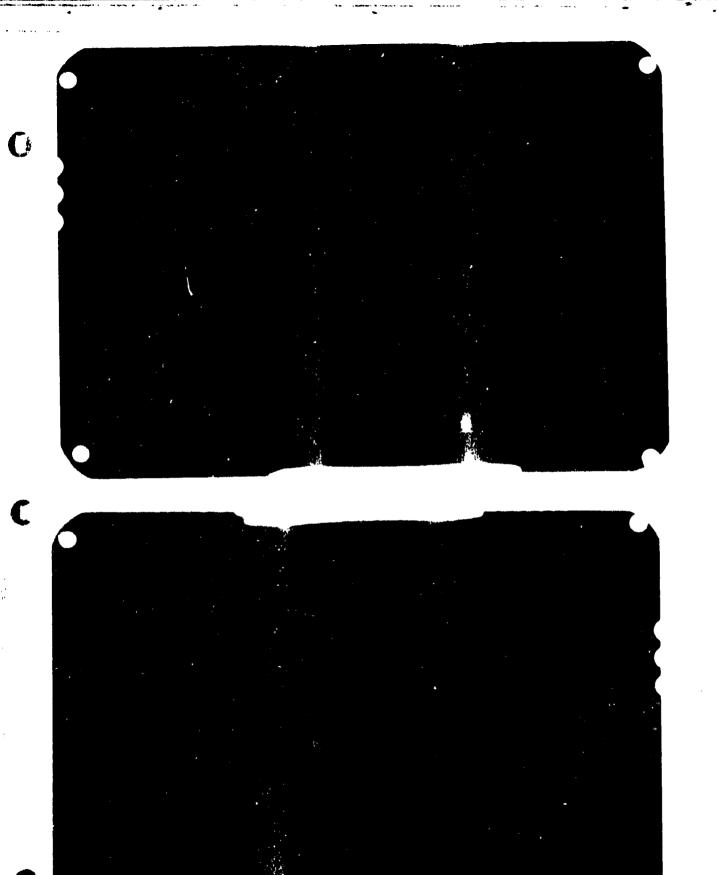




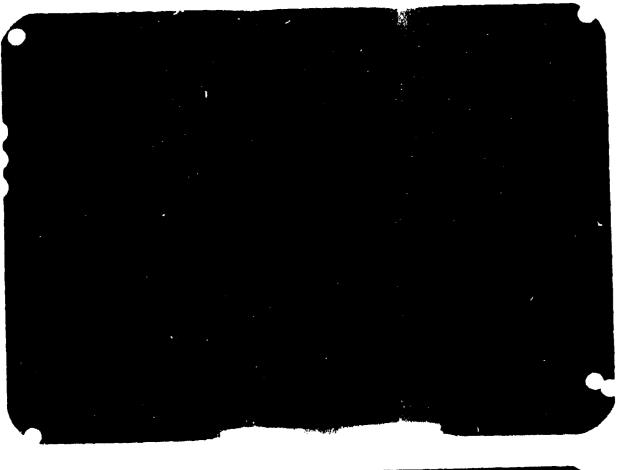
T1 V6

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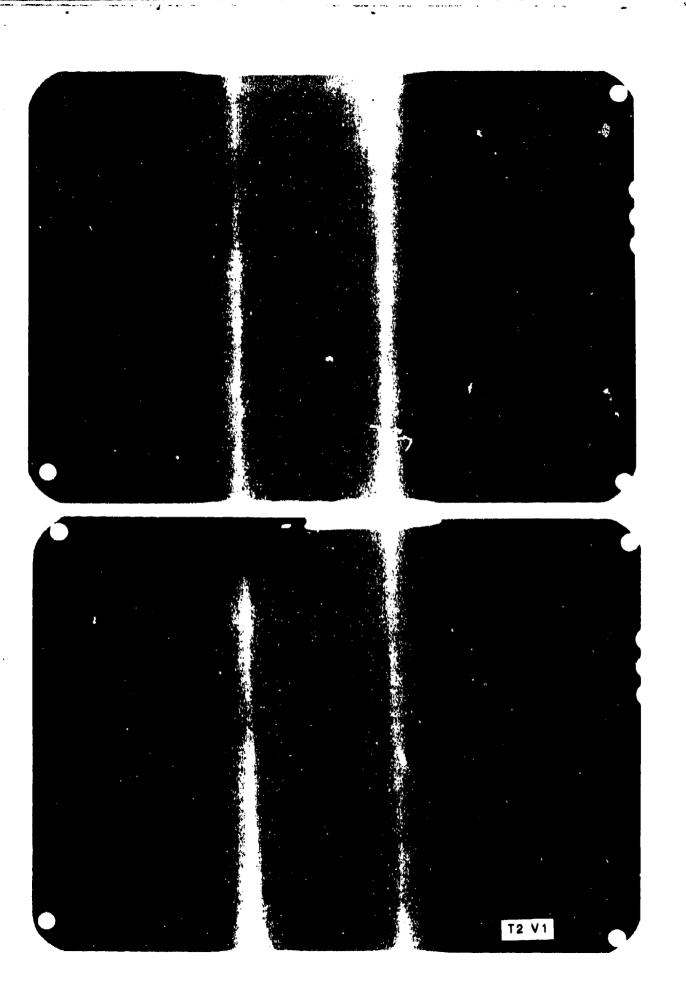


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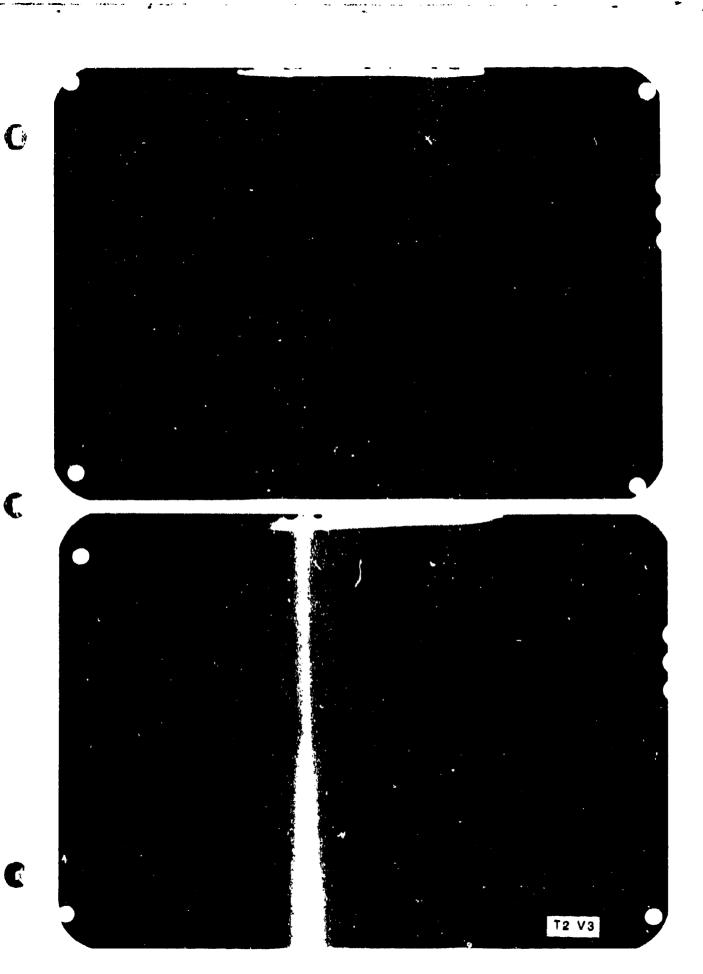
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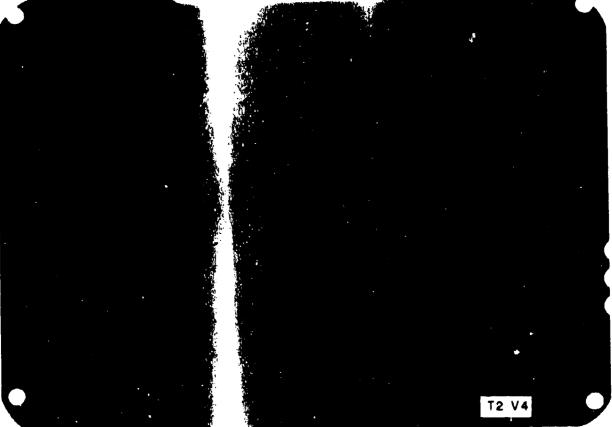


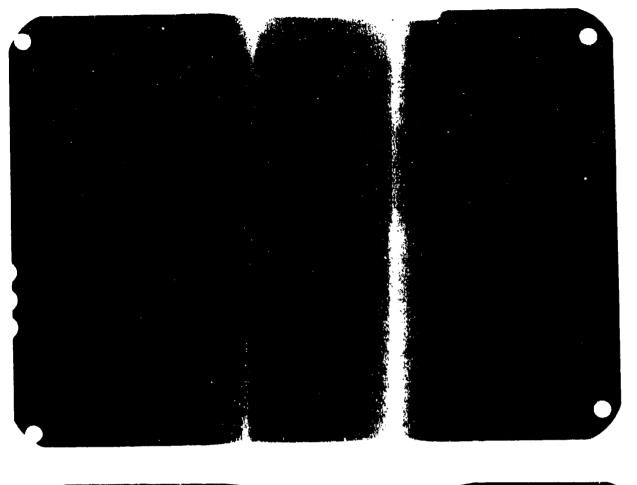
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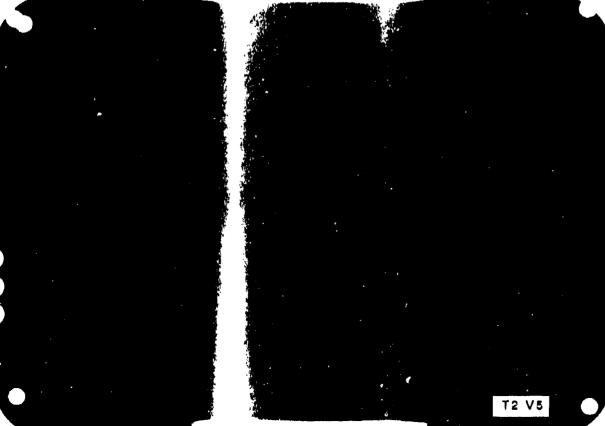


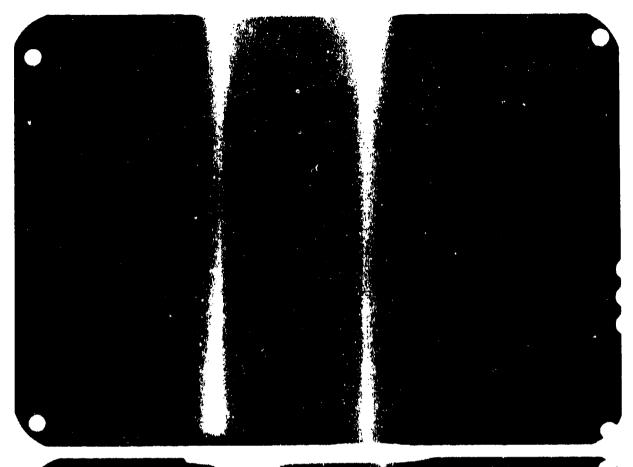


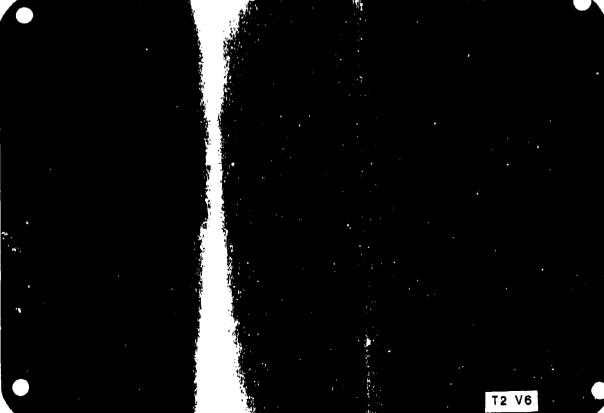
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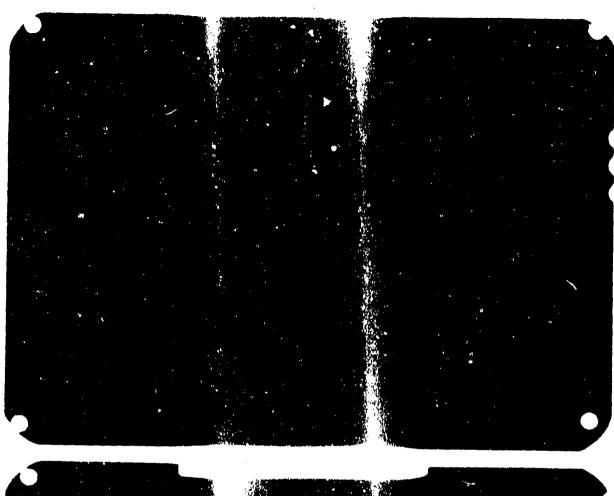


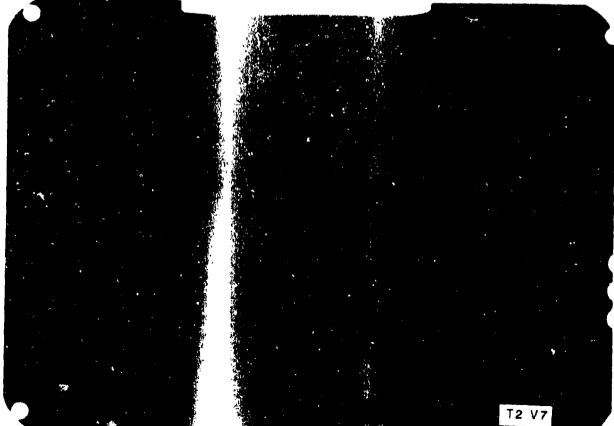












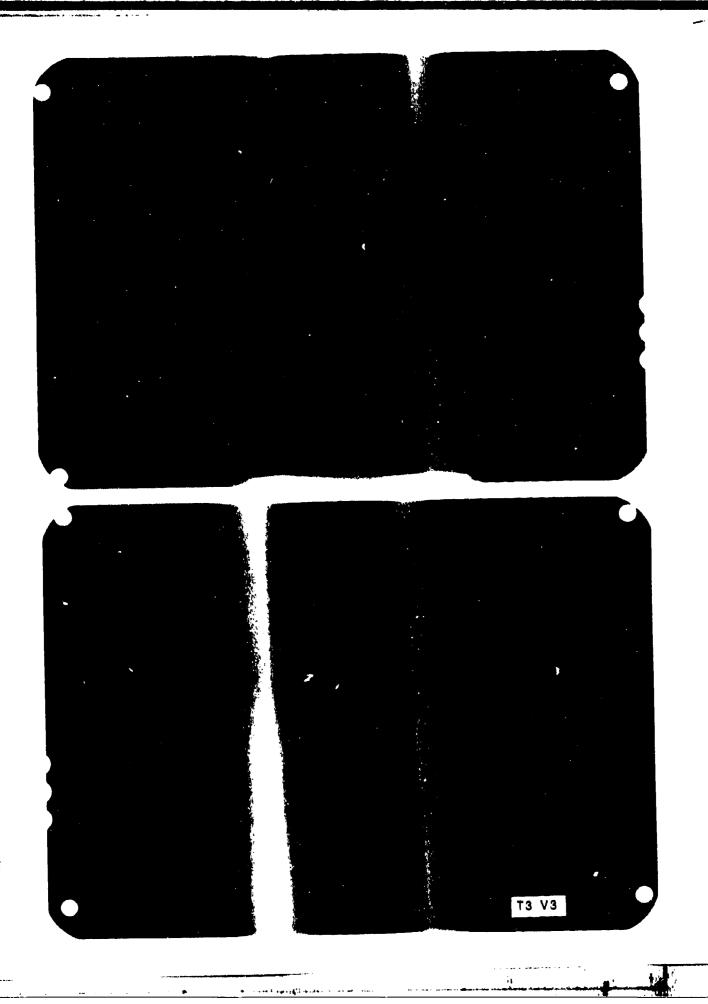
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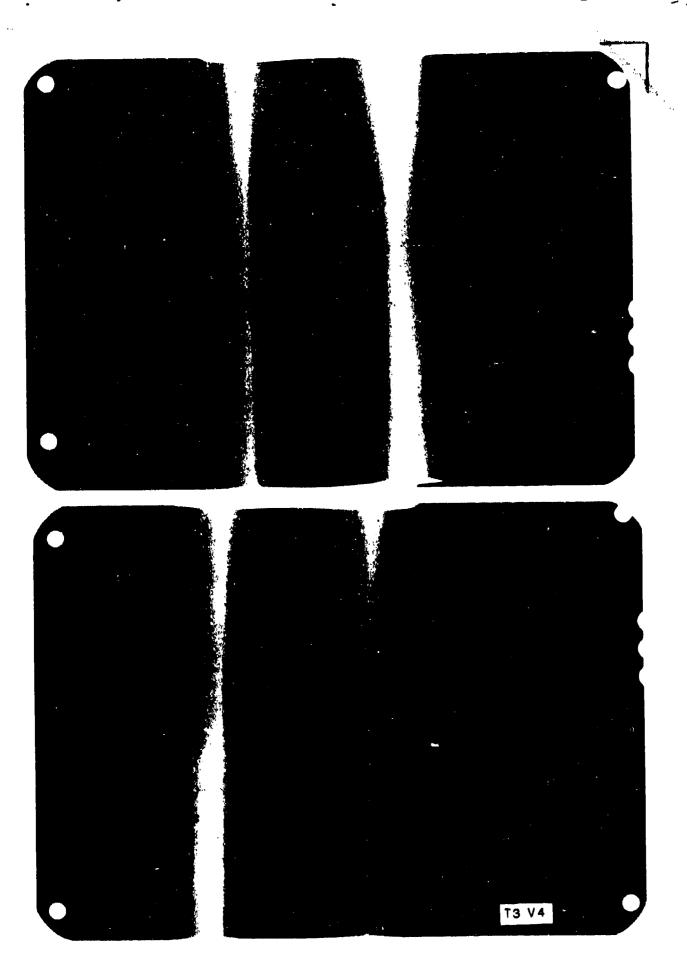




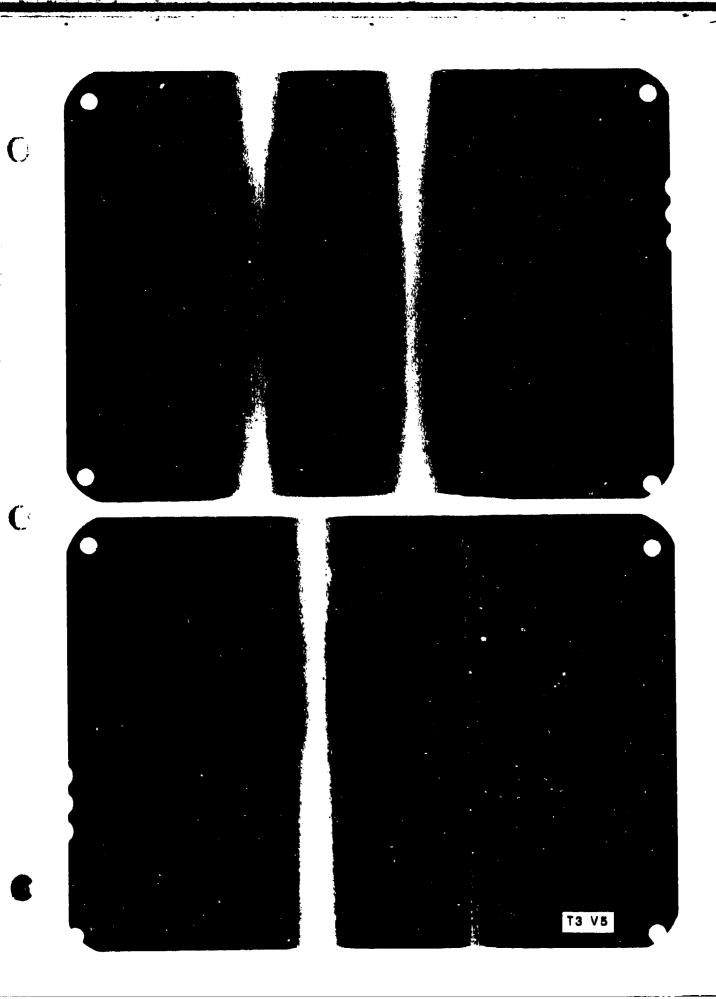
• T3 V1

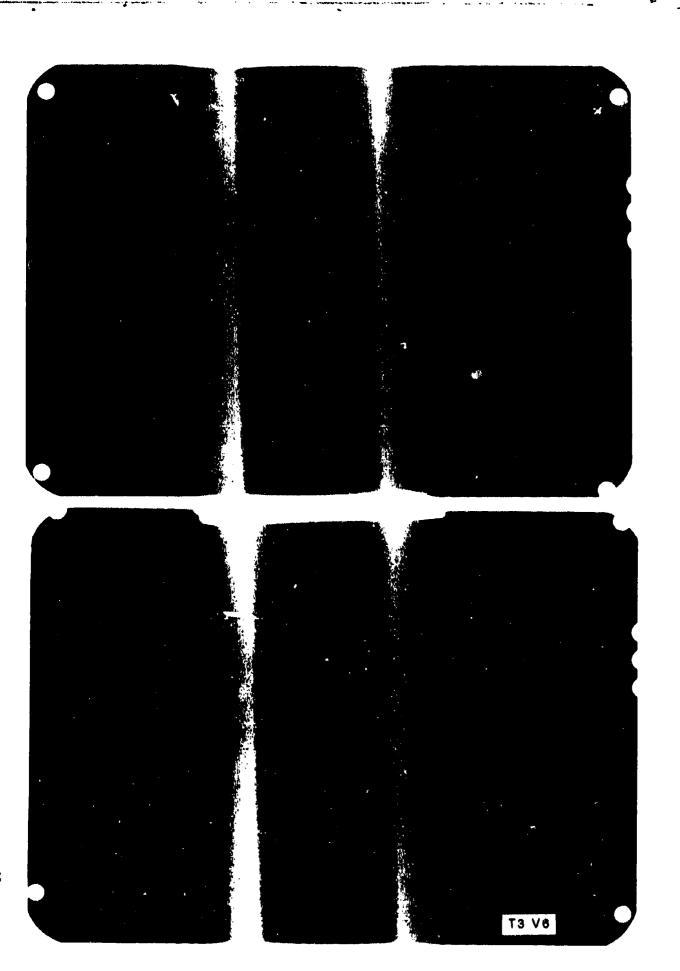






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